

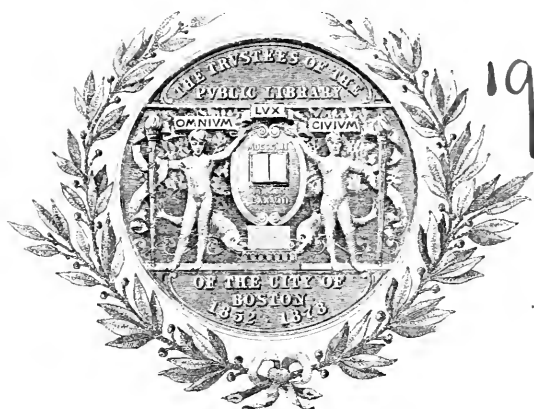
ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT



OF THE  
CITY OF BOSTON

1920

6355.53



1920

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Public Works Dept







ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT  
FOR THE  
YEAR 1920

COMPLIMENTS OF

THOMAS F. SULLIVAN,

Commissioner of Public Works

PLEASE EXCHANGE

CITY OF BOSTON  
PRINTING DEPARTMENT

1921

/



ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT  
FOR THE  
YEAR 1920



CITY OF BOSTON  
PRINTING DEPARTMENT  
1921

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**COMMISSIONER OF PUBLIC WORKS**  
AND OFFICE FORCE

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DRAIN INVESTIGATIONS  
REPORTS  
ALL DIVISIONS

GENERAL OFFICE  
SECRETARY AND CHIEF CLERK

ACCOUNTS      CONTRACTS  
CEMENT TESTING  
BLUE PRINTING

**BRIDGE AND FERRY DIVISION**  
**DIVISION ENGINEER**  
AND  
OFFICE FORCE

**HIGHWAY DIVISION**  
**DIVISION ENGINEER**  
AND  
OFFICE FORCE

**SEWER AND SANITARY**  
**DIVISION ENGINEER**

**WATER DIVISION**  
**DIVISION ENGINEER**  
AND  
OFFICE FORCE

ENGINEER  
OF  
CONSTRUCTION

ENGINEERING FORCE  
ON  
CONSTRUCTION

INSPECTORS

CONTRACT  
WORK

BRIDGE SERVICE  
SUPERVISOR

DRAIN TENDERS  
AND ASSISTANTS  
BOSTON BRIDGES

MECHANICS  
YARD AND STABLE  
FORCES

BOSTON AND CAMBRIDGE BRIDGES  
DRAIN TENDERS  
AND ASSISTANTS

DESIGNING ENGINEER  
AND  
ENGINEER OF  
SPECIAL WORK

ENGINEERING FORCE  
ON  
DESIGN

FERRY SERVICE  
GENERAL FOREMAN

CASHIER

NORTH FERRY  
TOLLMEN  
AND  
GATEMEN  
SEVEN  
BOAT CREWS

MECHANICS  
MAINTENANCE  
AND  
REPAIR FORCE

SOUTH FERRY  
TOLLMEN  
AND  
GATEMEN  
FIVE  
BOAT CREWS

LIGHTING  
SERVICE

SUPERVISOR  
OF PERMITS  
AND FORCE

ASSISTANT ENGINEER  
AND FORCE  
DESIGNS AND ESTIMATES

PAVING SERVICE  
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CHARGE

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MAINTENANCE

CONSTRUCTION  
ENGINEERING FORCE

CHIEF INSPECTOR  
AND FORCE

CONTRACT WORK

ENGINEER IN CHARGE  
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REVENUE  
INSPECTION  
AND  
ELECTRICAL  
FORCE

METER BRANCH

WASTE INSPECTION

ORGANIZATION  
PUBLIC WORKS DEPARTMENT  
1920



ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT  
FOR THE  
YEAR ENDING JANUARY 31, 1921.

---

BOSTON, February 1, 1921.

HON. ANDREW J. PETERS,  
*Mayor of the City of Boston:*

SIR,—In compliance with Revised Ordinances the annual report of the operations and expenses of the Public Works Department for the year ending January 31, 1921, is respectfully submitted. The Public Works Department, created by Ordinances 1910, chapter 9, now chapter 28 of the Revised Ordinances of 1914, was formed by consolidating the Engineering, Water and Street Departments.

ORGANIZATION.

The department is composed of five main divisions, viz.:

*Central Office.*—The Central Office is composed of the accounting force of the entire department under the charge of the secretary and chief clerk.

*Bridge and Ferry Division.*—This division, under a division engineer, has the charge and care of all bridges used as highways which are in whole, or in part, under

the control of the city; the care and management of the ferries owned by the city, including boats, slips, drops and buildings.

NOTE.—The Boston and Cambridge Division, so called, is not strictly speaking a division of the Public Works Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provision of chapter 412 of the Acts of 1904; but because of the fact that the present Commissioner of Public Works is the Boston member of this commission and also because one half of the expense of this commission is defrayed by the Bridge Service, it is in this report treated as a division of this department.

*Highway Division.*—This division, under a division engineer, has the care of the construction, reconstruction and maintenance of roadways and sidewalks; the care of lamps and the lighting of streets, parks and alleys.

*Sewer and Sanitary Division.*—This division, under a division engineer, has charge of the construction of sewers, catch-basins and waterways; the collection of and removal of ashes, garbage, refuse, street cleaning and the oiling and watering of streets.

*Water Division.*—This division, under a division engineer, has the care of water pipes, installation of meters, water service, laying and relaying of water mains and the high pressure fire service.

## REVIEW.

A brief summary of the principal activities of the Public Works Department during the year ending January 31, 1921, follows:

### *Bridge Service.*

Clarendon Street Bridge, from Stuart street to Columbus avenue. The building of this bridge was started during the year and the work will be completed early in the spring.

*Ashland Street Bridge.*—The rebuilding of the bridge over the New York, New Haven & Hartford Railroad tracks has begun and will be finished in about six months more.

*Warren Bridge.*—The work started in 1919 is now practically completed. The rebuilding of this bridge will permit the operation of the heaviest type trolley



cars to and from Charlestown and Chelsea in the event of any delay on Charlestown Bridge.

*Roxbury Canal Sea Wall.*—The sea wall in front of the city yards on Albany street has been rebuilt and the dredging of the canal is now in progress. This will allow steamers of greater depth than formerly to dock at the City Hospital coal plant at a saving of about \$1 a ton in the price of coal.

#### *Ferry Service.*

*“John H. Sullivan.”*—The superstructure of this steel ferryboat was altered to provide four teaming roadways with an increased capacity of about 75 per cent.

*“Noddle Island.”*—Contract has been made for rebuilding this ferryboat to provide four teaming roadways and the work will be completed early in the year.

*“Governor Russell”* and *“General Sumner.”*—The main engines on both these ferryboats have been overhauled and repaired during the year.

*New Boats.*—Two new ferryboats, each with four teaming roadways, are being constructed under contract. These boats are to be equipped with special fire pumps so as to be available for use in an emergency to assist the fire boats.

*Piers.*—The south pier on the East Boston side North Ferry was rebuilt during the year.

#### *Paving Service.*

Smooth pavements, artificial stone sidewalks and granite block pavement have been laid on a number of streets during the year in accordance with the policy adopted two years ago of laying permanent pavement in the heavy traffic streets and radial highways. About 125,000 square yards of sheet asphalt, 70,000 square yards of artificial stone, 100,000 square yards of granite block and 22,000 square yards of wood block were laid during the year.

#### *Sewer Service.*

*Stony Brook.*—The extension of the covered channel of the brook, south of Forest Hills, for a distance of about 900 feet, is now in progress under contract.

*Brookline Avenue.*—Contract has been made for reinforced concrete conduit in this avenue, from Beacon street to Audubon road, a portion of the existing wooden conduit having collapsed during the year.

*Farragut Road.*— A reinforced concrete overflow sewer, 400 feet in length, is being built in that part of the road formerly under water, but which later is to be filled in.

*K and N Streets.*— Contract was made during the year and work is now in progress on the extension of these overflow sewers. This will remove cause of pollution of the beach at the Strandway.

Sanitary sewers to the length of about 20,000 feet and surface drains amounting to about 19,500 feet were constructed during the year.

#### *Street Cleaning Service.*

An Elgin motor-driven sweeper, with gutter attachment, was bought during the year and is giving splendid service. There are now two of these machines in the department.

Four tractors to be used in the removal of snow have been bought during the year.

#### *Sanitary Service.*

Payment for the collection and removal of ashes and garbage in the contract districts on a cubic yard basis has been continued with satisfactory results.

#### *Water Division.*

Leases for space and agreements for power have been made with the Boston Elevated Railway Company and the Edison Electric Illuminating Company for the establishment of high pressure fire pumping stations on Commercial street, Atlantic avenue and Stuart street. Contract has been made for the furnishing and erection of the pumping plants at the Lincoln Power Station of the Elevated and the Atlantic Avenue Station of the Edison Company.

Waste water surveys have been made in the Charlestown, Brighton and South Boston districts with gratifying results.

Approximately seven miles of main pipes have been laid and relaid and about 36,000 feet of water pipe have been cleaned during the year.

#### WORK CONTEMPLATED FOR 1921.

The construction of a new bridge between Charlestown and Chelsea is planned for the coming year.

The bridge over the Boston & Albany Railroad at Cambridge street, Allston, will be rebuilt during 1921.

Entrances and exits at the ferry piers to allow two lines of traffic to enter and leave the boats will be reconstructed during the year.

The laying of smooth and granite block pavements in the main thoroughfares of the city proper and suburban districts will be continued as in the past three years.

Extraordinary repairs are to be made to one of the main engines at the Calf Pasture pumping station.

A new turbine water wheel, controlling gates, generator and storage battery and electric light system at Moon Island is planned for the coming year.

An additional motor-driven sweeper will be bought during the year for the Street Cleaning Service.

It is proposed to continue the waste water survey which was begun last year and also the cleaning of water pipes in various sections.

#### APPROPRIATIONS.

The money assigned for the work of the Public Works Department during the year February 1, 1920, to January 31, 1921, was made available from the following sources:

*First.*— Maintenance appropriation, derived from the income of the city raised by taxation. In December, 1919, the department estimates of the money necessary for the proper maintenance and conduct of affairs of the different services were submitted to the Mayor. The estimates were made in segregated form to the Mayor, who made such allowance for each item in the budget as he considered necessary and submitted them to the City Council. The total maintenance appropriations as passed by the City Council and approved by the Mayor are shown below. On another page will be found the total expenditures by each service for each item in the segregated budget:

Central Office . . . . .	\$90,650 58
Bridge Service . . . . .	473,699 74
Ferry Service . . . . .	492,607 43
Lighting Service . . . . .	723,623 98
Paving Service . . . . .	1,605,884 15
Sanitary Service . . . . .	1,528,698 71
Street Cleaning and Oiling Service . . . . .	954,630 04
Sewer Service . . . . .	534,814 74
Water Service . . . . .	1,253,166 33
 Total . . . . .	 <u>\$7,657,775 70</u>

## Boston and Cambridge Bridges.\*

*Second.*— Loan inside the debt limit for building new streets assessable on abutting property authorized by chapter 393 of the Acts of 1906. (Paving Service.)

Amount expended during the year . . . . .	<u>\$533,630 43</u>
---	---------------------

*Third.*— Loan inside the debt limit under the provisions of chapter 426 of the Acts of 1897, as amended by chapter 204 of the Acts of 1908, from which all sewerage works are now built. (Sewerage Works—Sewer Service.)

Balance February 1, 1920 . . . . .	\$343,661 21
Loan . . . . .	<u>800,000 00</u>
Total . . . . .	\$1,143,661 21
Expended during the year . . . . .	<u>848,045 50</u>
Balance January 31, 1921 . . . . .	<u>\$295,615 71</u>

*Fourth.*— Separate systems of drainage.

Balance February 1, 1920 . . . . .	\$14 22
Expended during the year . . . . .	<u>14 22</u>
Balance January 31, 1921 . . . . .	<u>0 00</u>

*Fifth.*— High Pressure Fire Service. (Water Service.)

Balance February 1, 1920 . . . . .	\$78,522 06
Appropriation (from cash in treasury) . . . . .	<u>300,000 00</u>
	\$378,522 06
Expended during the year . . . . .	<u>† 99,502 68</u>
Balance January 31, 1921 . . . . .	<u>\$279,019 38</u>

## SPECIAL APPROPRIATIONS.

Loan inside the debt limit under the provisions of chapter 661, Acts of 1912, for the widening and laying out of certain streets in Boston. (Paving Service.)

\* Paid by Bridge Service and included in that appropriation.

† Total expended to January 31, 1921, \$1,020,980.62.

## Expended during the year on:

Belgrade avenue extension and Beech street widening . . . . .	\$9,963 06
Hyde Park avenue, widening . . . . .	49,511 97

Total . . . . .	<u>*\$59,475 03</u>
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## BRIDGES, REPAIRS, ETC. (BRIDGE SERVICE.)

Balance, February 1, 1920 . . . . .	\$155,255 22
Appropriations from taxes . . . . .	45,000 00
Revenue . . . . .	<u>22,774 05</u>

Total . . . . .	\$223,029 27
Expended during the year . . . . .	<u>194,275 48</u>

Balance January 31, 1921 . . . . .	<u>\$28,753 79</u>
------------------------------------	--------------------

## ASHLAND STREET BRIDGE, RECONSTRUCTION. (BRIDGE SERVICE.)

Appropriation, (from cash in Treasury) . . . . .	\$65,000 00
Expended during the year . . . . .	<u>1,432 51</u>

Balance January 31, 1921 . . . . .	<u>\$63,567 49</u>
------------------------------------	--------------------

## BROOKLINE AVENUE BRIDGE. (BRIDGE SERVICE.)

Balance February 1, 1920 . . . . .	\$926 90
Expended during the year . . . . .	<u>212 99</u>

Balance January 31, 1921 . . . . .	<u>\$713 91</u>
------------------------------------	-----------------

## CHELSEA BRIDGE SOUTH. (BRIDGE SERVICE.)

Balance February 1, 1920 . . . . .	\$16,303 04
Expended during the year . . . . .	<u>1,435 50</u>

Balance January 31, 1921 . . . . .	<u>\$14,867 54</u>
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## GRANITE AVENUE BRIDGE, APPROPRIATION FROM TAXES. (BRIDGE SERVICE.)

Appropriation. . . . .	\$2,814 86
Expended during the year . . . . .	<u>2,396 93</u>

Balance January 31, 1921 . . . . .	<u>\$417 93</u>
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\* See, also, Highways, Making of, detail.

## \* SEA WALL, ETC., ROXBURY CANAL. (BRIDGE SERVICE.)

Balance February 1, 1920 . . . . .	\$6,585 30
Loan issued . . . . .	250,000 00
Total . . . . .	<u>\$256,585 30</u>
Expended during the year . . . . .	147,092 61
Balance January 31, 1921 . . . . .	<u>\$109,492 69</u>

## STRANDWAY AND OLD HARBOR IMPROVEMENT. (BRIDGE SERVICE.)

Balance February 1, 1920 . . . . .	<u>\$250 00</u>
Expended during the year . . . . .	<u>\$250 00</u>

## EAST BOSTON FERRY IMPROVEMENTS, ETC. (FERRY SERVICE.)

Loan under chapter 315, Acts of 1920, outside of debt limit . . . . .	† \$1,000,000 00
Expended during the year . . . . .	156,600 71
Balance January 31, 1921 . . . . .	<u>† \$843,399 29</u>

## FERRYBOAT "NODDLE ISLAND." (FERRY SERVICE.)

Appropriation . . . . .	\$160,000 00
Expended during the year . . . . .	59,676 62
Balance January 31, 1921 . . . . .	<u>\$100,323 38</u>

## FERRYBOATS, REPAIRS, ETC. (FERRY SERVICE.)

Balance February 1, 1920 . . . . .	\$27,904 00
Expended during the year . . . . .	24,544 32
Balance January 31, 1921 . . . . .	<u>\$3,359 68</u>

## GRANOLITHIC SIDEWALKS. (PAVING SERVICE.)

Balance February 1, 1920 . . . . .	\$3,684 16
Appropriation from taxes . . . . .	50,000 00
Total . . . . .	<u>\$53,684 16</u>
Expended during the year . . . . .	<u>53,684 16</u>

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\* Does not include loan authorized but not issued \$80,000.

† \$500,000 not issued.

RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.  
(PAVING SERVICE.)

Balance February 1, 1920 . . . . .	\$374,387 51
Appropriation from taxes . . . . .	750,000 00
Total . . . . .	<u>\$1,124,387 51</u>
Expended during the year . . . . .	942,637 65
Balance January 31, 1921 . . . . .	<u>\$181,749 86</u>

STREET IMPROVEMENTS. (PAVING SERVICE.)

Balance February 1, 1920 . . . . .	\$27,225 99
Appropriation from taxes . . . . .	250,000 00
Transfer . . . . .	50,000 00
Total . . . . .	<u>\$327,225 99</u>
Expended during the year . . . . .	327,225 99
Balance January 31, 1921 . . . . .	<u>\$0 00</u>

LAND AND BUILDINGS, SANITARY AND STREET CLEANING  
DIVISION DORCHESTER. (SANITARY SERVICE.)

Appropriation. . . . .	\$13,500 00
Expended during the year . . . . .	<u>13,500 00</u>

OLD HARBOR IMPROVEMENT. (SEWER SERVICE.)

Loan . . . . .	* \$10,000 00
Expended during the year . . . . .	9,966 17
Balance January 31, 1921 . . . . .	<u>\$33 83</u>

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\* Loan authorized but not issued, \$90,000.

**Expenditures Under the Maintenance Appropriation of the  
From February 1, 1920,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
<b>A. PERSONAL SERVICE AS PER SCHEDULE A:</b>			
1. Permanent employees.....	\$82,001 76	\$301,468 43	\$267,819 35
2. Temporary employees.....		6,044 95	13,768 41
3. Unassigned.....		5,454 31	3,734 84
<b>B. SERVICE OTHER THAN PERSONAL:</b>			
1. Printing and binding.....	1,224 25		492 92
2. Postage.....	193 27	120 55	4 00
3. Advertising and posting.....		79 57	60 15
4. Transportation of persons.....	399 78	514 82	87 15
5. Cartage and freight.....		1 55	191 93
6. Hire of teams and auto trucks.....		233 83	3,742 77
7. Heat.....			
8. Light and power.....		10,569 90	5,946 64
9. Lighting streets, alleys and parks.....			
10. Rent, taxes and water.....		150 93	55 00
11. Insurance.....			
12. Premium on surety bond.....	6 00		85 00
13. Communication.....	16 85	173 68	279 32
14. Motor vehicle repairs and care.....	292 56	2,324 58	
15. Motorless vehicle repairs.....			92 02
16. Care of horses.....			
17. Care of persons.....			
18. Cleaning.....		13 80	36 25
19. Removal of ashes, dirt and garbage.....			
20. Disposal of ashes, dirt and garbage.....			
21. Removal of snow.....			
22. Medical.....		55 00	24 00
23. Veterinary.....			
24. Blacksmith.....		1,079 72	
25. Examinations.....			
26. Protective and preventative.....			
27. Testing materials and supplies.....			
28. Expert and architect.....	2,250 80		450 00
29. Stenographic, copying and indexing.....			
30. Religious.....			
31. Extermination of insects.....			
32. Towing.....			832 50



Several Services by Items of the Segregated Budget.  
to January 31, 1921.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
\$5,385 30	\$769,385 63	\$700,971 17	\$581,768 42	\$307,690 69	\$663,016 07	\$3,679,506 82
.....		22,600 66	.....	820 18	.....	43,234 20
.....	30,360 11	30,874 36	45,671 20	11,866 91	17,629 21	145,590 94
.....		1,162 06	.....	134 80	163 50	3,177 53
29 00	428 34	123 24	55 54	273 38	588 34	1,815 66
.....	67 10	47 60	27 20	64 30	181 15	527 07
26 74	1,110 96	173 80	122 10	1,746 19	5,532 32	9,713 86
.....	187 24	9 87	285 13	66 92	376 32	1,118 96
.....	41,257 07	109,066 54	122,369 48	316 22	234 13	277,220 04
.....				264 12	.....	264 12
.....	1,503 33	4,585 73	357 85	3,362 31	1,702 84	28,028 60
704,643 83	.....	.....	.....	.....	.....	704,643 83
.....	2,624 85	1,020 00	2,675 00	821 10	1,250 28	8,597 16
.....						.....
.....	9 00	3 00	.....	.....	12 50	115 50
4 00	1,807 36	744 38	747 43	787 28	1,645 46	6,205 76
59 35	4,375 43	1,060 38	3,165 56	1,077 66	2,705 05	15,060 57
.....	467 31	7,966 46	5,760 26	124 10	90 15	14,500 30
.....						.....
.....						.....
.....	151 80	156 65	110 40	54,139 21	30 34	54,638 45
.....		294,666 81	.....	57 25	.....	294,724 06
.....	79 75	140,566 66	257 15	.....	.....	140,903 56
.....	405,395 81	.....	.....	.....	.....	405,395 81
.....	113 50	95 55	45 00	15 00	.....	348 05
.....	299 00	456 61	295 00	44 50	4 50	1,099 61
.....	1,397 12	33 70	285 40	271 22	.....	3,067 16
.....						.....
.....						.....
.....					1,086 25	1,086 25
.....	135 00	.....	.....	1,747 55	.....	4,583 35
.....						.....
.....						.....
.....						832 50

## Expenditures Under the Maintenance Appropriation of

GROUP AND ITEM.	Central.	Bridge.	Ferry.
<b>B. SERVICE OTHER THAN PERSONAL; <i>cont'd.</i></b>			
33. Interpreters.....			
34. Jurors.....	\$12 00		
35. Fees, service of venires, etc.....		\$28 00	
36. Boiler inspection.....		54 00	\$25 00
37. Photographic and blueprinting.....		27 04	
38. Burial.....			
39. General plant.....	84 00	51,645 64	113,060 88
40. Harness, etc., repairs.....			
41. Horseshoeing and clipping.....			
42. Repairing streets.....			
<b>C. EQUIPMENT:</b>			
1. Apparatus, cable, wire, etc.....			
2. Machinery.....			
3. Electrical.....			
4. Motor vehicles.....	2,496 13	1,550 13	
5. Motorless vehicles.....			
6. Stable.....			
7. Furniture and fittings.....		45 40	6 73
8. Educational and recreational.....			
9. Office.....	220 50	114 00	
10. Library.....			
11. Marine.....			367 00
12. Medical, surgical, laboratory.....			
13. Tools and instruments.....		944 25	1,982 62
14. Live stock.....			
15. Sanitary.....			
16. Wearing apparel.....			
17. General plant.....		758 93	12 55
<b>D. SUPPLIES:</b>			
1. Office.....	1,683 64	1,253 17	1,338 15
2. Food and ice.....		125 48	93 19
3. Fuel.....		4,081 73	130,772 92
4. Forage and animal.....			
5. Medical, surgical, laboratory.....			
6. Library.....			
7. Veterinary.....			
8. Laundry, cleaning, toilet.....	1 48	100 10	438 20

## the Several Services by Items of the Segregated Budget.—Continued.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
						\$12 00
\$10 00	\$586 00	\$22 00	\$609 00	\$97 58	\$277 02	1,629 60
	60 00			47 00	10 00	196 00
				5 00		32 04
10,746 87	8,023 59	1,511 90	5,550 86	16,173 93	32,447 26	239,244 93
	323 45			92	13 25	337 62
	4,225 65	4,372 25	4,001 50		612 15	13,211 55
				337 37	18,774 69	19,112 06
				7,309 75		7,309 75
					264 61	264 61
156 93	8,435 98	1,672 78	14,862 38	2,387 72	9,586 92	41,148 97
	125 00	738 00	1,146 51			2,009 51
	1,225 86	2,581 02	1,929 10	313 40	31 00	6,080 38
	11 50	36 99			24 25	124 87
			374 85		205 35	914 70
						367 00
	5,643 48	3,020 62	7,518 99	1,403 02	61,783 92	82,296 90
	375 00	37,400 00				37,775 00
	292 31	11 50	163 26	813 18	240 32	1,520 57
359 00	98 21	252 69	358 22	2,178 15	444 37	4,462 12
160 32	7,654 94	2,315 44	2,312 77	2,413 28	8,175 68	27,307 39
	1,098 20	655 75	1,091 45	103 70	65 60	3,233 37
	8,536 53	3,504 05	598 97	151,182 88	3,863 01	302,540 09
	33,884 98	81,426 74	65,258 68	6,643 84	8,986 90	196,201 14
		4 65		9 60		14 25
	144 47	478 74	177 67		25 45	826 33
	237 22	127 76	137 01	247 64	101 46	1,390 87

## Expenditures Under the Maintenance Appropriation of

GROUP AND ITEM	Central.	Bridge.	Ferry.
D. SUPPLIES.— <i>Cont'd.</i>			
9. Educational and recreational .....			
10. Agricultural.....			
11. Motor vehicle.....	\$490 96	\$1,880 26	
12. Military.....			
13. Chemicals and disinfectants.....			\$138 40
14. Marine.....			
15. Tobacco.....			
16. General plant.....		1,781 03	4,021 68
E. MATERIALS:			
1. Building.....		120 92	54 83
2. Highway.....			
3. Bridges.....		39,600 74	
4. Ferries.....			16,472 73
5. Sewer.....			
6. Water.....			
7. Conduits.....			
8. Apparatus.....			
9. Machinery.....		409 49	
10. Electrical.....		522 58	664 30
11. Marine.....			
12. Parks and recreational.....			
13. General plant.....		43 94	
F. SPECIAL ITEMS:			
1. Land.....			
2. Damages.....			
3. Sinking funds.....			
4. Serial loans.....			
5. Interest.....			
6. Military.....			
7. Pensions and annuities.....		2,789 79	7,603 11
8. State and military aid, soldiers' relief and burials.....			
9. Care of dependents.....			
10. Mothers' aid.....			
11. Workingmen's compensation.....		837 71	

## PUBLIC WORKS DEPARTMENT.

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**the Several Services by Items of the Segregated Budget.—Continued.**

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
\$192 90	\$2,320 75	\$528 68	\$3,468 49	\$2,270 87	\$9,065 93	\$20,218 84
	141 55	80 50	78 42	302 08	15 36	756 31
	4,436 25	504 10	1,973 77	4,443 75	5,001 88	22,162 46
	1,481 58	414 08	38 14	3,396 85	104 13	5,610 53
	188,822 46		84,535 94			273,358 40
						39,600 74
						16,472 73
				9,791 12		9,791 12
					245,769 63	245,769 63
						409 49
	74 14	240 56		730 67	693 01	2,925 26
	12,968 27	22,146 45	8,026 96	2,082 76	3,731 99	49,000 37
					37,158 54	37,158 54
360 00	35,299 09	17,525 71	12,355 04	13,795 45	25,981 60	115,709 79
	1,958 93	10,144 52	3,031 15	2,289 15	1,457 72	19,719 18

## Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central.	Bridge.	Ferry.
F. SPECIAL ITEMS.— <i>Concl'd.</i>			
12. Contracts for construction where money is derived from taxes as per Schedule B.....			
13. Industries.....			
G. INCIDENTAL EXPENDITURES TO COVER CONTINGENCIES OTHER THAN PERSONAL SERVICE:			
1. Probation officers' expenses.....			
Totals.....	\$91,373 98	\$436,999 95	\$574,754 54

## Several Services by Items of the Segregated Budget.—Concluded.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
					\$82,004 92	\$82,004 92
\$722,134 24	\$1,589,641 10	\$1,508,102 71	\$983,597 25	\$616,461 55	\$1,253,166 33	\$7,776,231 65

**Expenditures Under the Maintenance Appropriation of  
From February 1, 1920,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
<b>SCHEDULE A. PERSONAL SERVICE.</b>			
Commissioners.....	\$9,000 00		
Division engineers.....		\$3,750 00	\$1,250 00
Engineers in charge.....			
Secretary and chief clerk.....	3,902 61		
Clerks and stenographers.....	53,868 37	3,272 28	1,070 85
Messengers.....			
Chief engineer (civil).....			
Assistant engineers (civil).....	3,000 00	11,512 65	
Draughtsmen.....		6,290 75	
Instrumentmen.....		3,994 14	
Rodmen.....		1,146 57	
Inspectors.....		2,375 12	
Foremen.....			
Subforemen.....		4,428 75	
Investigator.....			
Address printer.....			
Blue printers.....	3,885 24		
Boys.....	870 33		
Chauffeurs.....	1,377 00	6,534 00	351 00
Cement testers.....	4,138 48		
Chief inspectors.....			
Chemist and assistant.....			
Claim agent.....	1,959 73		
Cashiers.....			1,959 73
Constable.....			
Coal passers.....			
Captains.....			26,078 55
Drawtenders and assistants.....		210,240 89	
Deckhands.....			29,950 51
Engineers (steam).....			26,737 50
Electricians.....		1,720 20	1,720 20
Emergency men.....			
Feeders.....			
Gatemen (ferry).....			21,081 28
General foreman.....			2,740 65
Janitresses.....			5,319 00
Joiners and carpenters.....			3,687 25



the Several Services by Items of the Segregated Budget.  
to January 31, 1921.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
						\$9,000 00
\$1,250 00	\$3,750 00	\$1,666 64	\$1,666 67	\$1,666 64	\$5,000 00	19,999 95
	500 00			1,745 12	3,500 00	5,745 12
						3,902 61
3,171 61	21,274 24	1,766 96	440 92	4,106 91	63,278 08	152,249 33
					1,455 36	1,455 36
	6,022 83			5,984 42	11,101 37	37,621 27
	455 11			4,136 97	3,493 20	14,376 03
	5,042 10			7,951 40	6,763 37	23,751 01
	1,956 68			1,958 80	1,512 63	6,574 68
	37,862 88	60,114 42	78,058 35	29,744 37	49,325 72	257,490 86
	22,028 92	24,259 80	4,249 70	6,498 02	24,346 06	81,382 50
	35,790 42			423 75	1,299 00	41,841 92
				1,671 80		1,671 80
					2,028 18	2,028 18
						3,885 24
	531 00					1,401 33
963 69	5,380 00	3,776 00	5,015 20	6,771 00	14,588 69	44,756 58
						4,138 48
	750 00				1,660 01	2,410 01
						1,959 73
						1,959 73
		1,361 64				1,361 64
				11,167 75		11,167 75
						26,078 55
						210,240 89
						29,950 51
	13,814 75			10,786 50	1,542 00	52,739 25
				1,617 75	1,759 76	6,817 91
					16,653 00	16,653 00
		3,897 00	3,816 00			7,713 00
						21,081 28
					4,483 76	7,224 41
						5,319 00
						3,687 00

## Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central.	Bridge.	Ferry.
Laborers, janitors, teamsters, watchmen, stablemen, etc. ....		\$14,409 10	\$17,146 60
Mechanics.....		26,583 25	19,620 25
Masons.....			
Meter readers.....			
Medical inspectors.....		166 67	83 33
Oilers and firemen.....			69,526 50
Pavers.....			
Quartermasters.....			19,366 42
Sealers.....			
Sewer gatemen, cleaners and flushers.....			
Supervisors.....		4,963 06	
Storekeepers.....			
Superintendent and deputy.....			
Stockkeepers.....			1,361 64
Telephone operator.....			
Tollmen.....			18,768 09
Veterinarian.....			
Wharfingers.....			
Weighers.....			
Wharfmen.....			
Yardmaster.....			
Yardmen.....			
Permanent employees.....	\$82,001 76	\$301,468 43	\$267,819 35
Temporary employees.....		6,044 95	13,768 41
Overtime.....		5,454 31	3,734 84
Other departmental work.....			
Totals.....	\$82,001 76	\$312,967 69	\$285,322 60

## Several Services by Items of the Segregated Budget.—Concluded.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
.....	\$447,338 01	\$545,381 32	\$484,768 16	\$98,511 17	\$231,446 19	\$1,839,000 52
.....	156,175 06	45,561 00	.....	15,372 50	147,406 39	410,718 45
.....	.....	.....	.....	17,083 90	2,032 20	19,116 10
.....	.....	.....	.....	.....	34,678 18	34,678 18
.....	333 33	1,083 33	749 97	83 33	500 00	2,999 96
.....	5,053 24	.....	.....	49,954 50	3,066 00	127,600 24
.....	.....	.....	.....	378 00	3,066 00	3,444 00
.....	.....	.....	.....	.....	.....	19,366 42
.....	.....	.....	.....	.....	2,754 00	2,754 00
.....	.....	.....	.....	22,850 00	.....	22,850 00
.....	2,558 25	1,745 12	1,745 12	.....	1,760 48	12,772 03
.....	.....	.....	.....	56 98	1,560 89	1,617 87
.....	.....	.....	.....	2,905 34	6,425 93	9,331 27
.....	.....	1,443 77	.....	.....	1,286 25	4,091 66
.....	.....	.....	.....	.....	965 50	965 50
.....	.....	.....	.....	.....	.....	18,768 09
.....	575 00	837 48	1,258 33	220 83	508 32	3,399 96
.....	.....	4,342 69	.....	.....	.....	4,342 69
.....	1,261 80	3,734 00	.....	.....	.....	4,995 80
.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	3,283 82	3,283 82
.....	2,521 98	.....	.....	4,042 94	6,240 85	12,805 31
\$5,385 30	\$769,385 63	\$700,971 17	\$581,768 42	\$307,690 69	\$663,016 07	\$3,679,506 82
.....	.....	22,600 66	.....	820 18	.....	43,234 20
.....	20,076 31	27,994 11	27,591 20	9,705 04	11,032 11	105,487 92
.....	10,283 80	2,880 25	18,080 00	2,161 87	6,597 10	40,030 02
\$5,385 30	\$799,745 74	\$754,446 19	\$627,439 62	\$320,377 78	\$680,645 28	\$3,868,331 96

**Financial Statement of the Public Works Department, Maintenance, February 1, 1920, to January 31, 1921.**

DIVISIONS AND SERVICES.	Appropriations, 1920-21.	Transfers to.	Transfers from.	Total Credits.	Expenditures, 1920-21.	Balances, January 31, 1921.
Central Office.....	\$90,650 58	\$723 40		\$91,373 98	\$91,373 98	
Bridge Service.....	473,699 74		\$34,875 00	438,824 74	436,999 95	\$1,824 79
Ferry Service.....	492,607 43	82,901 97		575,509 40	574,754 54	754 86
Lighting Service.....	723,623 98		1,489 70	722,134 28	722,134 24	04
Paving Service.....	1,605,884 15	6,783 92	23,026 97	1,589,641 10	1,589,641 10	
Sanitary Service.....	1,528,698 71	11,000 00	30,182 88	1,509,515 83	1,508,102 71	1,413 12
Street Cleaning and Oiling Service.....	954,630 04	46,000 00	14,962 07	985,667 97	983,597 25	2,070 72
Sewer Service.....	534,814 74	86,182 88	4,055 55	616,942 07	616,461 55	480 52
Water Service.....	1,253 166 33	52,112 71	52,112 71	1,253 166 33	1,253,166 33	
Totals.....	\$7,657,775 70	\$285,704 88	\$160,704 88	\$7,782,775 70	\$7,776,231 65	*\$6,544 05

\* Balances transferred to City Treasury.

The expenditures under the several appropriations (for the different services) for the year 1920-21 were as follows:

DIVISIONS AND SERVICES.	Current Expenses.	Special Appropriations.	Total Expenditures.	Balances, January 31, 1921.
Central Office.....	\$91,373 98		\$91,373 98	
Bridge Service.....	436,999 95	349,481 38	786,481 33	\$217,395 42
Ferry Service.....	574,754 54	84,220 94	658,975 48	103,683 06
Lighting Service.....	722,134 24		722,134 24	
Paving Service.....	1,589,641 10	1,916,653 26	3,506,294 36	181,749 86
Sanitary Service.....	1,508,102 71	13,500 00	1,521,602 71	
Street Cleaning and Oiling Service.....	983,597 25		983,597 25	
Sewer Service.....	616,461 55	\$58,025 89	1,474,487 44	295,615 71
Water Service.....	1,253,166 33	99,502 68	1,352,669 01	279,019 38
East Boston Ferry Im- provements, etc.....		156,600 71	156,600 71	343,399 29
Totals.....	\$7,776,231 65	\$3,477,984 86	\$11,254,216 51	\$1,420,862 72

**Comparative Table Showing Cost of Maintenance of the \* Street Department and Public Works Department Since 1911.**

DIVISION AND SERVICE.	1910-11.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
Central Office....	\$23,627 76	\$72,043 26	\$77,515 65	\$80,159 50	\$74,592 01	\$70,618 59	\$71,206 04	\$73,965 70	\$73,074 04	\$79,909 15	\$91,375 98
Bridge Service....	201,995 00	274,876 76	268,950 44	271,423 04	283,066 41	269,283 23	277,847 65	306,144 31	323,601 28	363,130 05	410,216 83
Boston and Cambridge Bridges...	22,006 57	21,055 26	17,183 87	17,744 48	18,645 52	17,765 44	18,945 39	21,163 98	23,942 63	26,390 52	26,783 42
Ferry Service.....	235,920 63	247,628 07	269,016 52	277,727 39	293,671 43	277,048 47	303,917 18	355,380 17	393,783 69	436,687 75	574,754 51
Lighting Service...	710,294 84	726,967 18	768,779 08	795,880 53	753,811 73	739,599 62	772,769 97	773,541 76	540,350 56	714,821 55	722,134 24
Paving Service.....	1,178,546 90	1,162,660 29	1,236,686 29	1,361,082 17	1,223,364 69	1,029,374 44	802,150 73	949,803 41	1,006,628 46	1,063,059 16	1,023,332 39
Removal of Snow...	112,623 21	124,961 68	106,691 07	64,007 49	165,105 19	131,142 57	303,570 39	203,210 45	138,659 39	78,808 12	663,111 55
Sanitary Service...	723,219 64	730,292 62	790,809 01	925,318 56	1,017,452 66	1,042,315 00	969,438 86	1,031,156 99	1,106,933 20	1,265,581 65	1,508,102 71
Sewer Service.....	312,541 05	325,508 86	378,873 18	387,120 67	362,672 07	339,446 62	322,199 03	379,483 30	452,310 71	472,713 49	616,461 65
Street Cleaning Service.....	370,602 81	408,571 72	454,623 71	492,324 45	472,730 69	489,959 90	428,899 28	516,475 67	556,830 98	607,992 26	700,031 01
Street Watering and Oiling Service.....	160,513 93	163,036 26	198,993 93	228 511 50	174 312 00	139,744 97	121,420 68	110,488 14	137,150 39	118,014 00	188,763 20
Water Service.....	.....	822,377 46	835,072 00	899,338 91	894,170 14	904,135 19	917,823 61	1,015,543 65	1,055,842 87	1,010,634 32	1,253,166 33
Totals.....	\$1,051,952 34	\$5,040,879 42	\$5,403,203 75	\$5,800 638 69	\$5,733,594 54	\$5,450,434 30	\$5,313,218 84	\$5,765,457 53	\$5 809,108 20	\$6,237,742 02	\$7,776,231 65

\* Engineering and Water Departments were consolidated into the Public Works Department February 1, 1911.

† Includes \$71,000 paid by Street Cleaning and Oiling Service.

## REVENUE.

*Collected by City Collector on Account of the Public Works  
Department and Credited to General Revenue,  
as per City Auditor.*

## Bridge Service:

Labor and materials furnished . . . . .	\$63 16	
Rents . . . . .	330 00	
Chelsea Bridge North . . . . .	8,358 63	
Meridian Street Bridge . . . . .	9,681 55	
	<hr/>	\$18,433 34

## Ferry Service:

Tolls . . . . .	\$90,085 57	
Rents . . . . .	553 27	
Headhouse privileges . . . . .	400 00	
Sale of coal . . . . .	651 58	
Sale of old material . . . . .	280 78	
Commission on telephones . . . . .	119 30	
Cleaning telephone booths . . . . .	48 00	
Damages to ferry . . . . .	12 00	
Free ferries, July 4 . . . . .	1 00	
	<hr/>	92,151 50

## Lighting Service:

Lighting Boston and Cambridge Bridges. . . . .	\$2,486 56	
Sale of gasolene . . . . .	86 73	
	<hr/>	2,573 29

## Paving Service:

Permits . . . . .	\$29,050 54	
Sidewalk and edgestone assess- ments . . . . .	27,841 39	
Sale of old material . . . . .	5,658 04	
Labor and materials . . . . .	3,588 01	
Inspectors' services . . . . .	2,804 50	
Labor and materials (chapter 28, Revised Ordinances of 1914) . . . . .	1,187 75	
Forfeiture on bid (Supply De- partment) . . . . .	500 00	
Use of pier . . . . .	30 00	
Damage to sidewalk . . . . .	25 00	
	<hr/>	70,685 23

## Sanitary Service:

Tickets for the removal of waste, . . . . .	\$83,164 30	
Sale of manure . . . . .	1,630 70	
Sale of old material . . . . .	658 00	
Damage to vehicle . . . . .	40 98	
Removal of dead horses . . . . .	19 00	
	<hr/>	

<i>Carried forward . . . . .</i>	\$85,512 98	\$183,843 36
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<i>Brought forward</i> . . . . .	\$85,512 98	\$183,843 36
Repairs to sleigh . . . . .	10 05	
Repayment of amount paid under Workingmen's Compensation Act, for injuries to employee . . . . .	407 34	
		85,930 37
Street Cleaning and Oiling Service:		
Rents . . . . .	\$750 00	
Oiling streets . . . . .	94 86	
Removing dirt . . . . .	79 90	
Rent refunded . . . . .	50 00	
Repairs to standpipe . . . . .	29 13	
Sale of automobile . . . . .	25 00	
Removal of dead horses . . . . .	10 00	
Damage to buggy . . . . .	5 00	
		1,043 89
Sewer Service:		
Disposal of sewage . . . . .	\$5,869 36	
Entrance fees . . . . .	2,825 40	
Labor and materials . . . . .	2,166 21	
Use of drill . . . . .	240 00	
Sale of materials . . . . .	104 89	
Assessments . . . . .	16 37	
Inspectors' services . . . . .	13 98	
Rent . . . . .	10 00	
Refund on automobile registra- tion . . . . .	8 00	
Damage to truck . . . . .	3 25	
		11,257 46
Water Service:		
Water rates, 1921 . . . . .	\$72,340 70	
Water rates, prior . . . . .	3,292,596 34	
	\$3,364,937 04	
Elevators, etc. . . . .	21,626 36	
Service pipes . . . . .	18,931 85	
Sale of materials . . . . .	10,655 68	
Fees . . . . .	4,285 55	
Labor and materials . . . . .	4,154 92	
Interest on bank deposits . . . . .	944 86	
Board of horses . . . . .	913 75	
Off and on . . . . .	850 20	
Damage to hydrants . . . . .	404 32	
Repairs to automobiles . . . . .	354 48	
Relocating hydrants . . . . .	295 40	
Sale of merchandise . . . . .	291 69	
Damage to automobiles . . . . .	190 85	
Relocating pipes . . . . .	173 88	
Rents . . . . .	120 00	
<i>Carried forward</i> . . . . .	\$3,429,130 83	\$282,075 08

<i>Brought forward</i>	.	.	.	\$3,429,130 83	\$282,075 08
Gate boxes	.	.	.	119 07	
Sale of booth	.	.	.	90 00	
Testing meters	.	.	.	83 81	
Use of yard	.	.	.	70 00	
Damage to wagons	.	.	.	33 56	
Filling tanks	.	.	.	8 48	
				<hr/>	3,429,535 75
					<hr/>
					<u><u>\$3,711,610 83</u></u>



CONTRACTS MADE BY PUBLIC WORKS DEPARTMENT FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921.  
Hired Team Contracts, from February 1, 1920, to January 31, 1921.

DISTRICT.	Awarded to	Single per Day.	Double per Day.	Auto Trucks per Day.	Paving Service.	Sanitary Service.	Sewer Service.	Street Cleaning and Oil- ing Service.	Total.
1No. 1, South Boston and Dorchester North.....	Thomas F. McCabe.....	\$5 00	\$6 00	\$35 00	\$7,892 50	.....	.....	.....	\$7,892 50
1No. 2, East Boston and Breed's Island.....	E. J. McHugh, Jr.....	4 00	8 00	25 00	1,835 00	.....	.....	.....	1,835 00
1No. 3, Charlestown.....	B. E. Grant Company.....	6 00	6 50	35 00	7,806 50	.....	.....	\$1,966 50	9,773 00
1No. 4, Brighton.....	Bernard Malone.....	4 00	8 00	25 00	4,280 50	.....	.....	.....	4,280 50
1No. 5, West Roxbury.....	John J. Moore.....	4 00	7 00	30 00	6,160 00	\$8,440 42	\$405 00	5,899 50	20,904 92
1No. 6-9, Dorchester and Ashmont.....	John D. Lyons.....	4 25	7 85	30 00	16,673 92	.....	47 10	.....	16,721 02
1No. 7, Roxbury South and Jamaica Plain.....	John J. Moore.....	4 00	6 95	30 00	3,054 45	33,339 99	.....	1,534 55	34,874 54
1No. 8, South End and Roxbury North.....	B. E. Grant Company.....	5 00	6 85	35 00	11,581 63	26,438 70	.....	.....	38,020 33
1No. 10, North and West Ends and Back Bay.....	B. E. Grant Company.....	5 50	6 00	35 00	5,003 75	29,277 14	.....	34,410 63	68,691 52
1No. 11, Hyde Park.....	Thomas H. Corrigan.....	4 75	7 50	25 00	2,040 00	.....	.....	.....	2,040 00

1 Advertised and awarded to lowest bidder.

## BRIDGE AND FERRY DIVISION — BRIDGE SERVICE.

## Bridge Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
1 Clarendon Street Bridge, removal of concrete and steel structure.	Coleman Brothers .....	Feb. 9, 1920.	Completed May 4, 1920....	\$4,300 00	\$4,300 00
1 Repairing and strengthening Warren Bridge over Charles river.	V. Grande .....	Mar. 21, 1920.	Unfinished .....	210,000 00	187,003 49
1 Repairing face of channelway, Dorchester Avenue Bridge, over Fort Point channel.	W. H. Ellis & Son Company....	May 12, 1920.	Completed June 20, 1920....	1,221 50	1,561 61
1 Rebuilding flooring of Chelsea Bridge South.....	Lawler Brothers .....	May 24, 1920.	Completed July 24, 1920....	27,671 00	29,511 25
1 Building Clarendon Street Bridge over the Boston & Albany and the New York, New Haven and Hartford Railroad.	John McCourt Company .....	May 24, 1920.	Unfinished .....	117,308 00	67,898 44
1 Furnishing and installing navigation lights and appliances for same on Summer Street, Dorchester Avenue, Warren and Congress Street Bridges.	Smith & Lovett .....	June 4, 1920.	Completed Sept. 1, 1920....	2,400 00	2,432 00
1 Furnishing and installing electric lanterns for navigation lights on Summer Street and Dorchester Avenue Bridges	Stearns, Perry & Smith Company.	June 25, 1920.	Completed Dec. 15, 1920....	2,302 00	1,936 70
1 Rebuilding Ashland Street Bridge over New York, New Haven & Hartford Railroad, West Roxbury.	Boston Bridge Works, Inc. ....	July 6, 1920	Unfinished .....	54,000 00	
1 Furnishing labor and material to cover inner side of girapit, Northern Avenue Bridge.	W. Klingberg & Sons, Inc. ....	July 15, 1920.	Completed July 23, 1920....	986 00	986 00
1, 4 Repairing Brookline Street Bridge over Charles river, Boston to Cambridge.	W. S. Rendle .....	Sept. 10, 1920.	Completed Nov. 10, 1920....	2,250 00	939 75

<sup>1</sup> Repairing flooring, Brookline Street Bridge over Charles river, Boston to Cambridge.	J. B. Dolan.....	Nov. 5, 1920.	Completed Dec. 16, 1920....	7,339 00	2,955 52
<sup>2</sup> Agreement for part payment of work on Warren Bridge.	Boston Elevated Railway Company.	April 6, 1920.	.....	.....	†27,426 53
<sup>3</sup> Leasing storehouses at the approach of and under the new Charlestown Bridge.	M. P. Coleman.....	July 1, 1918.	Unfinished.....	*2,697 00	*2,472 25

\* Per Year. † Paid by Boston Elevated to city for work done. <sup>1</sup> Advertised and awarded to lowest bidder.  
<sup>2</sup> Advertised and awarded to highest bidder. <sup>3</sup> Paid to city. <sup>4</sup> Equal amount paid by city of Cambridge.

## BRIDGE AND FERRY DIVISION — FERRY SERVICE.

## Ferry Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
1, 2 Weighing and vending machines in ferry headhouses, 1 Teaming coal from coal pockets and delivering same to ferries.	Autosales Corporation.	Feb. 11, 1920.	Completed Jan. 31, 1921.	\$400 00	\$400 00
2 Remove soft patches on steam chimney of boiler of ferryboat "General Hancock" and replace same with hard patches, etc.	E. J. McHugh, Jr.	Feb. 5, 1920.	Completed Jan. 31, 1921.	* 35	3,977 77
1 Repairs to machinery, etc., ferryboat "John H. Sullivan."	Hodge Boiler Works.	Feb. 12, 1920.	Completed March 8, 1920.	1,500 00	1,987 15
1 Rebuilding part of south pier, East Boston landing, North Ferry.	Boston Marine Works.	Mar. 18, 1920.	Completed May 25, 1920.	5,350 00	5,350 00
1 Repairing ferry piers, South Ferry, Boston side.	W. S. Rendle.	April 12, 1920.	Completed Oct. 27, 1920.	14,048 95	12,558 87
1 Repairing main engines, auxiliaries, etc., ferryboat "Governor Russell."	W. H. Ellis & Son Company.	April 28, 1920.	Completed July 2, 1920.	1,843 60	2,157 02
1 Rebuilding roadways of three ferry drops and repairing one drop foundation.	Simpson's Patent Dry Dock Company.	April 28, 1920.	Completed July 7, 1920.	9,756 00	11,736 00
1 Furnish new stack and repair tanks on ferryboat "Governor Russell."	W. S. Rendle.	May 22, 1920.	Completed Jan. 5, 1921.	10,732 00	9,917 22
2 Placing ferryboat "General Sumner" on marine railway, clean hull, strip off copper, calk seams of hull, place four propeller blades, etc.	Simpson's Patent Dry Dock Company.	May 24, 1920.	Completed June 23, 1920.	785 00	785 00
1 Repairing main engines, etc., ferryboat "General Sumner."	Atlantic Works.	June 3, 1920.	Completed June 8, 1920.	3,000 00	4,460 89
	Simpson's Patent Dry Dock Company.	July 2, 1920.	Completed July 12, 1920.	930 00	930 00

<sup>2</sup> Placing ferryboat "General Hancock" on marine railway, clean bottom, place new planking, etc.	Atlantic Works.....	July 16, 1920.	Completed July 17, 1920.	1,500 00	453 06
<sup>1</sup> Repairing south drop, North Ferry, East Boston landing.	W. H. Ellis & Son Company.....	Aug. 3, 1920.	Completed Oct. 15, 1920.	9,287 00	9,616 19
<sup>4</sup> New steel ferryboat.....	Groton Iron Works.....	Aug. 25, 1920.	Unfinished.....	379,950 00	75,990 00
<sup>1</sup> New steel ferryboat.....	Winnisunnet Ship Yard, Inc.....	Aug. 25, 1920.	Unfinished.....	335,000 00	67,000 00
<sup>1</sup> Repairs on eight bronze propeller blades.....	Simpson's Patent Dry Dock Company.....	Sept. 22, 1920.	Completed Nov. 24, 1920.	1,146 00	1,289 25
<sup>1</sup> Repairs and renewals to double-screw ferryboat "Noddle Island."	Richard T. Green Company.....	Oct. 5, 1920.	Unfinished.....	152,400 00	59,588 40
<sup>1</sup> Repairing paddle wheels of ferryboat "D. D. Kelly."	Boston Shipbuilding Company.....	Dec. 10, 1920.	Unfinished.....	2,980 00	2,812 02

\* Per ton of 2,000 pounds. <sup>1</sup> Advertised and awarded to lowest bidder. <sup>2</sup> Invitation bids. <sup>3</sup> Paid to city. <sup>4</sup> Second lowest bidder.

### Miscellaneous Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Sea wall, platform and dredging at Roxbury canal.	W. S. Rendle.....	May 7, 1920.	Unfinished.....	\$200,823 00	\$139,545 12

<sup>1</sup> Advertised and awarded to lowest bidder.

# HIGHWAY DIVISION — LIGHTING SERVICE. Contracts in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1919.
1, 2, 3, 4, Furnishing gas for street lighting purposes for a period of ten years from April 1, 1914, until March 31, 1924, inclusive	Boston Consolidated Gas Company....	March 19, 1914.	Unfinished.....	.....	} \$195,805 09
1, 2, 3, 4, 5, Lighting the streets, parks and alleys (except streets in Charlestown and Hyde Park) with gas for a period of ten years, from April 1, 1914, until March 31, 1924, inclusive.	Boston Consolidated Gas Company....	March 19, 1914.	Unfinished.....	.....	
1, 6, Lighting the streets, parks and alleys with electricity (except streets in Charlestown and including Charlestown if said company shall purchase the electric distribution system located therein) for a period of ten years, from December 7, 1914, until December 6, 1924, inclusive.	The Edison Electric Illuminating Co....	Dec. 7, 1914.	Unfinished.....	.....	* 472,921 31

<sup>1</sup> Only bid; not advertised.

<sup>2</sup> Agreement made July 21, 1914, that prices for gas lamps outside of contract be as follows:

<sup>3</sup> Annual rates paid for gas lamps. Single burner: For gas.....\$9  
For lighting and care 12

Total.....\$21

<sup>4</sup> Contracts may be terminated on April 1, 1919, if City Council votes and Mayor approves.

<sup>5</sup> If rate to regular consumers is reduced to a price less than 80 cents per M., a rebate will be made to the city at the rate of 12 cents per lamp per year for each 1 cent the price is so reduced below 80 cents per M.

<sup>6</sup> Lighting rates for the electric lamps are as shown on next page.

Triple burner lamps, per annum, \$45, fire alarm signal lamps, \$21.  
Double burner: For gas.....\$18  
For lighting and care 15

Total.....\$33

DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Year.	Running Costs per Lamp Hour.	DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Year.	Running Costs per Lamp Hour.
40 candle power Inc. lamp, series.....	\$10 80	0.18 cent	100 candle power Inc. lamp, multiple.....	\$18 00	0.50 cent
40 candle power Inc. lamp, multiple.....	12 00	0.25 cent	200 candle power Inc. lamp, series.....	25 00	1 cent
60 candle power Inc. lamp, series.....	12 00	0.20 cent	500 candle power Inc. lamp, multiple.....	36 00	1.50 cents
60 candle power Inc. lamp, multiple.....	12 00	0.20 cent	425 watt A. C. arc lamp, multiple.....	36 00	1.60 cents
100 candle power Inc. lamp series.....	18 00	0.40 cent	800 candle power Magnetite 500 watt D. C. arc lamp series.....	36 00	1.37 cent

A discount of 10 per cent is allowed from above rates.

A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is allowed for all outages.

The above are new prices which became effective on February 26, 1918, by decision of the Gas and Electric Light Commissioners.

Rebates for the preceding years, to the amount of \$147,746.25, were deducted from bills paid in 1918 to the Edison Electric Illuminating Company.

For further detail, see report of Lighting Service for 1918.

# HIGHWAY DIVISION — PAVING SERVICE. Artificial Stone Sidewalks, Rebate.\*

CONTRACTOR.	Dated.	Contract Completed.	Price per Square Foot.	Amount Expended in Rebate in 1920.
Simpson Brothers Corporation.....	April 9, 1920.....	January 31, 1921.....	\$0 12	\$125 76
John Landis.....	April 9, 1920.....	January 31, 1921.....	12	871 08
John Varnerin.....	April 9, 1920.....	January 31, 1921.....	12	404 52
W. A. Murfeldt Company.....	April 9, 1920.....	January 31, 1921.....	12	1,880 58
Thomas J. Hind Company.....	April 5, 1920.....	January 31, 1921.....	12	330 00
Pignat Vigenzi Music Company, Inc.....	April 12, 1920.....	January 31, 1921.....	12	141 78
Joseph Rugo.....	April 12, 1920.....	January 31, 1921.....	12	Nothing.
F. J. Van Etten Company.....	April 16, 1920.....	January 31, 1921.....	12	106 20
George M. Crowell.....	April 29, 1920.....	January 31, 1921.....	12	393 84
B. F. Haurahan.....	April 29, 1920.....	January 31, 1921.....	12	Nothing.
Joseph A. Singarella.....	May 6, 1920.....	January 31, 1921.....	12	266 56
Joseph Launbise.....	May 6, 1920.....	January 31, 1921.....	12	44 40
Alfred J. Clapp.....	May 6, 1920.....	January 31, 1921.....	12	Nothing.
Martino DeMatteo.....	April 29, 1920.....	January 31, 1921.....	12	576 48
Adams Pond Company.....	May 12, 1920.....	January 31, 1921.....	12	505 22
Kearns Construction Company.....	May 12, 1920.....	January 31, 1921.....	12	Nothing.
Warren Brothers Company.....	May 22, 1920.....	January 31, 1921. Rebate.*	12	177 84
Wilson & Tomlinson.....	May 20, 1920.....	January 31, 1921.....	12	357 48



Joseph Todesca.....	May 24, 1920.....	January 31, 1921.....	12	62 40
Sylvester Connolly.....	June 25, 1920.....	January 31, 1921.....	12	148 20
Charles Rossetti.....	July 2, 1920.....	January 31, 1921.....	12	Nothing.
John Kelly Company.....	July 2, 1920.....	January 31, 1921.....	12	131 82
Galassi Moscio and Tile Company.....	July 9, 1920.....	January 31, 1921.....	12	228 60
Fred T. Ley & Co., Inc.....	July 6, 1920.....	January 31, 1921.....	12	Nothing.
Frank Drinkwater.....	July 16, 1920.....	January 31, 1921.....	12	166 56
The Ginter Company.....	Sept. 7, 1920.....	January 31, 1921.....	12	Nothing.
Gascoigne & Linenthal, Inc.....	November 23, 1920.....	January 31, 1921.....	12	Nothing.

\* These walks are guaranteed by a surety company bond for five (5) years from date of completion, and were laid on various public streets where the contractor had agreements with the abutters. The price twelve (12) cents per square foot is equivalent to the expense to the city of one half the cost of a brick sidewalk.

## Asphalt Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amounts Expended in 1920.
Cushman road (Dustin street to Glencoe street)..... Easton street (North Harvard street to Mansfield street)..... Glenville avenue (Greylock road to Allston street)..... William Jackson avenue (Chestnut Hill avenue to Academy Hill road).....	John J. Lane.....	Sept. 7, 1920.	{ Unfinished Completed Nov. 9, 1920..... Completed Nov. 5, 1920..... Completed Oct. 30, 1920..... }	\$75,300 00	\$52,053 74
Centre street (Alliandale street to South street)..... South street (Centre street about 270 feet easterly).....	The Bermudez Company.....	Sept. 7, 1920.	{ Unfinished..... Unfinished..... }	\$8,300 00	72,851 88

## Wood Block Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
Devonshire street (Water street to Franklin street).....	James Doherty.....	May 12, 1920.	{ Completed July 10, 1920... Unfinished..... }	{ \$21,400 00	\$17,928 05
Washington street (Beach street to Kneeland street)....					
Charles street (Fruit street to Allen street).....	John McCourt Company.....	July 2, 1920.	Completed Aug. 20, 1920...	20,000 00	20,012 45
Tremont street (westerly side), Park street to Boylston street.....	James Doherty.....	July 16, 1920.	Completed Oct. 16, 1920...	34,200 00	25,495 51
Boylston street (northerly side), Tremont street to Charles street.....					

## Simasco Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
Market street (Washington street, across Western avenue).....	Simpson Brothers Corporation,	Nov. 2, 1920.	{ Unfinished..... Unfinished..... }	{ \$133,000 00	\$2,765 56
Arlington street (Market street, across Leicester street),					

## Artificial Stone Sidewalks, Furnishing and Laying.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Ashmont street (north side), from 186 feet west of Neponset avenue to Train street; Neponset avenue (west side) at Nos. 3-15 and 29-35; Olney street (north side) at Nos. 7 and 9.	Joseph A. Singarella.....	May 24, 1920.	Completed July 10, 1920....	\$5,700 00	\$4,946 48
<sup>1</sup> Ashfield street (Walker street to Fairview street); Congreve street (South street to Centre street); Hastings street (Centre street to Montview street); Walk Hill street (west side), Hyde Park avenue to Wenham street.	John Kelly, Company.....	July 2, 1920.	Completed Oct. 26, 1920....	33,500 00	21,283 13
<sup>1</sup> Brooks street (Hobart street to Faneuil street); Linden street (Brighton avenue to Commonwealth avenue).	Piazzuolo & Ferrari.....	July 2, 1920.	Completed Sept. 22, 1920....	15,300 00	8,950 65
<sup>1</sup> Union Park street (north side), Washington street to Harrison avenue.	Joseph A. Singarella.....	Aug. 11, 1920.	Completed Aug. 21, 1920....	1,500 00	1,194 75
<sup>1</sup> Providence street (north side), Columbus avenue to Church street.	Joseph A. Singarella.....	Sept. 22, 1920.	Completed Sept. 29, 1920....	2,500 00	1,257 00
<sup>1</sup> St. Albans road (Francis street to Huntington avenue).	Joseph A. Singarella.....	Oct. 18, 1920.	Completed Oct. 22, 1920....	850 00	996 78
<sup>1</sup> La Grange street (north side), Centre street to Landseer street.	Joseph Todesca.....	Nov. 26, 1920.	Unfinished.....	7,400 00	1,192 25

<sup>1</sup> Advertised and awarded to lowest bidder.

## Topeka Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Haydock street (Blue Hill avenue to Morton street); Wilcock street (Blue Hill avenue to Morton street); Wollaston terrace (Woodrow avenue to Jones avenue).	Rowe Contracting Company.	May 12, 1920.	Completed July 29, 1920....	\$32,000 00	\$30,041 70
<sup>1</sup> Bullock street (Commonwealth avenue to Boston & Albany Railroad); Cunningham street (Commonwealth avenue to Boston & Albany Railroad).	Rowe Contracting Company.	May 27, 1920.	Unfinished.....	37,700 00	16,610 15
<sup>1</sup> Beech street (West Roxbury Parkway to Belgrade avenue); Belgrade avenue (Anawan avenue to Centre street); Centre street (South street to Spring street).	Rowe Contracting Company.	July 6, 1920.	Unfinished.....	330,800 00	113,016 74
<sup>1</sup> Elder street (Columbia road to Humphreys street); Wilbur street (Cushing avenue to Upham avenue).	Central Construction Company.	July 13, 1920.	Completed Oct. 25, 1920....	22,000 00	17,923 91
<sup>1</sup> Archdale road (Washington street to South street); Parquilar street (Selwyn street to Centre street); McCraw street (Belgrade avenue to West Roxbury Railroad).	M. De Matteo.....	July 16, 1920.	{ Not started..... Completed Nov. 11, 1920.... }	{ 35,700 00	15,002 24
<sup>1</sup> Falkland terrace (Hobart street to Brookside road),	J. J. Lane.....	Aug. 11, 1920.	Completed Sept. 25, 1920....	17,600 00	11,693 53
<sup>1</sup> Pleasant street (East Cottage street to Sloughton street).	Central Construction Company.	Aug. 16, 1920.	Completed Oct. 7, 1920....	21,300 00	20,287 05
<sup>1</sup> Hamlin street (East Eighth street to Columbia road),	John T. Shea, Jr.....	Aug. 20, 1920.	Completed Sept. 20, 1920....	6,300 00	5,689 82
<sup>1</sup> Arbutus street (Blue Hill avenue to Irma street).....	M. De Matteo.....	Oct. 11, 1920.	Unfinished.....	19,000 00	
<sup>1</sup> Pleasant street (Sloughton street to Savin Hill avenue),	F. J. Burke.....	Oct. 15, 1920.	Completed Dec. 18, 1920....	25,000 00	18,892 10
<sup>1</sup> River street (bridge over Providence Division Railroad across Everett square).	Central Construction Company.	Nov. 2, 1920.	Not started.....	33,700 00	
<sup>1</sup> Centre street (Forbes street to Boylston street).....	Central Construction Company.....	Nov. 3, 1920.	Unfinished.....	43,000 00	9,369 21
<sup>1</sup> Green street (Call street to Centre street).....			Not started.....		

<sup>1</sup> Advertised and awarded to lowest bidder

## Concrete Retaining Wall.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
Ralston street (Boston street about 85 feet easterly) . . .	Andrews Contracting Company.	Nov. 5, 1920.	Completed Dec. 11, 1920 . . .	\$4,500 00	\$3,310 50

## Paving Between Tracks.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>a</sup> Hyde Park Avenue (Metropolitan avenue to River street.	John McCourt Company . . . . .	Oct. 8, 1920.	Completed Nov. 19, 1920 . . . .	\$27,380 00	\$26,588 60

## Bitulithic Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Stuart street (Clarendon street to Trinity place) . . . . .	Warren Brothers . . . . .	Aug. 3, 1920.	Completed Oct. 30, 1920 . . . .	\$11,000 00	\$10,281 30
<sup>2</sup> Huntington avenue at Jamaica way . . . . .	Warren Brothers . . . . .	Sept. 22, 1920.	Completed Aug. 21, 1920 . . . .	1,400 00	1,523 93

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>2</sup> Not advertised.<sup>3</sup> Not advertised, awarded to lowest bidder on invitation.

## Granite Block Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
1 Franklin street (60 feet west of Devonshire street to Broad street).	James Doherty.....	June 25, 1920.	Completed Sept. 3, 1920....	\$22,000 00	\$10,820 71
1 Washington street (Archdale road to 75 feet south of Corinth street).....	William J. Barry.....	June 25, 1920.	Unfinished.....	140,500 00	103,955 21
1 Grosvenor place (Cliff street southeasterly; southwesterly and southeasterly).	Joseph A. Singarella.....	July 20, 1920.	Completed Dec. 6, 1920....	4,800 00	3,871 06
1 Blackstone street (Clinton street to Haymarket square)	Coleman Brothers, Inc.....	Aug. 3, 1920.	Completed Sept. 21, 1920....	24,500 00	28,528 89
1 Dorchester avenue (Dorchester avenue bridge to West Second street).	John Kelly Company.....	Aug. 9, 1920.	Completed Dec. 24, 1920....	21,500 00	15,170 18
1 Public alley No. 710 (East Brookline street to East Newton street).	John Landis.....	Aug. 11, 1920.	Completed Nov. 23, 1920....	19,000 00	10,204 81
1 Public alley No. 818 (St. Stephen street 69 feet westerly).	John Landis.....				
1 Dudley street (Alexander street to Stoughton street)...	DeStefano Brothers.....	Aug. 18, 1920.	Unfinished.....	33,200 00	30,925 19
1 Albany street (Broadway to Troy street).....	James Doherty.....	Sept. 29, 1920.	Unfinished.....	55,500 00	30,458 10
1 Friend street (Union street to Causeway street).....	B. E. Grant Company.....	Oct. 11, 1920.	Unfinished.....	117,000 00	9,285 97
1 Portland street (Hanover street to Causeway street)...			Not started.....		
1 Richmond street (Hanover street to Atlantic street)...			Not started.....		
1 Public alley No. 909 (Massachusetts avenue to Hemenway street).	DeStefano Brothers.....	Nov. 2, 1920.	Not started.....	7,000 00	
1 Fargo street (B street to C street).....	B. E. Grant Company.....	Nov. 15, 1920.	Unfinished.....	16,500 00	2,464 15

1 Advertised and awarded to lowest bidder.

## Brick Block Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
1, 2 Mt. Vernon street (Joy street to West Cedar street)	John W. O'Connell.....	Oct. 3, 1920.	Completed Dec. 1, 1920. ....	\$53,000 00	\$7,311 74

## Repairing Bituminous Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
1 Repairing bituminous pavement. ....	The Bermudez Company .....	April 6, 1920.	Unfinished .....		\$67,148 37

<sup>1</sup> Advertised and awarded to lowest bidder.

<sup>2</sup> Brick block part of contract canceled.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Recutting and redressing old granite block.....	William Toon.....	Sept. 29, 1920.	Unfinished.....	\$12,000 00	\$413 37
<sup>2</sup> Taking down trees on Walk Hill street. ....	John Halloran. ....	Nov. 13, 1920.	Completed.....	490 00	

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>2</sup> Not advertised.



## Removing Snow and Ice.

District.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Snow District No. 1.....	Thomas H. Gorman.....	Jan. 8, 1920.	Completed March 18, 1920..	\$0 57 per cubic yard.....	\$27,811 44
<sup>1</sup> Snow District No. 2.....	Central Construction Company	Jan. 8, 1920.	Completed March 18, 1920..	74 per cubic yard.....	26,248 17
<sup>1</sup> Snow District No. 3.....	Coleman Brothers.....	Jan. 8, 1920.	Completed March 16, 1920..	74 per cubic yard.....	43,427 64
<sup>1</sup> Snow District No. 4.....	Coleman Brothers.....	Jan. 8, 1920.	Completed March 18, 1920..	73 per cubic yard.....	33,483 12
<sup>1</sup> Snow District No. 5.....	Coleman Brothers.....	Jan. 8, 1920.	Completed March 18, 1920..	78 per cubic yard.....	30,259 32
<sup>1</sup> Snow District No. 6.....	B. E. Grant Company.....	Jan. 8, 1920.	Completed March 18, 1920..	65 per cubic yard.....	56,366 70
<sup>1</sup> Snow District No. 7.....	M. H. Loonie.....	Jan. 8, 1920.	Completed March 18, 1920..	60 per cubic yard.....	35,865 90
<sup>2</sup> Snow District No. 8.....	William J. Barry.....	Feb. 20, 1920.	Completed March 18, 1920..	65 per cubic yard.....	27,653 28
<sup>2</sup> Snow District No. 9.....	D. M. Biggs & Co.....	Feb. 27, 1920.	Completed March 18, 1920..	65 per cubic yard.....	19,320 93
<sup>2</sup> Snow District No. 10.....	John Kelly Company.....	Mar. 4, 1920.	Completed March 18, 1920..	65 per cubic yard.....	17,499 50
<sup>2</sup> Snow District No. 11.....	J. C. Coleman & Sons.....	Mar. 1, 1920.	Completed March 18, 1920..	60 per cubic yard.....	17,419 80
<sup>2</sup> Snow District No. 12.....	Warren Brothers Company.....	Mar. 23, 1920.	Completed March 5, 1920.....	65 per cubic yard.....	2,538 25
<sup>2</sup> Snow District No. 13.....	John J. Lane.....	Mar. 4, 1920.	Completed March 18, 1920..	65 per cubic yard.....	13,956 15
<sup>2</sup> Snow District No. 14.....	John Sheu, Jr.....	Mar. 4, 1920.	Completed March 20, 1920..	65 per cubic yard.....	9,588 15
<sup>2</sup> Snow District No. 15.....	Hugh Nawn Contracting Company.	Feb. 27, 1920.	Completed March 19, 1920..	75 per cubic yard.....	17,685 38
<sup>2</sup> Snow District No. 16.....	V. Grande.....	Mar. 4, 1920.	Completed March 18, 1920..	65 per cubic yard.....	3,875 31
<sup>2</sup> Snow District No. 17.....	John A. Costello & Co.....	Mar. 8, 1920.	Completed March 18, 1920..	65 per cubic yard.....	9,881 64
<sup>2</sup> Snow District No. 18.....	Walter S Wyater.....	Mar. 4, 1920.	Completed March 2, 1920.....	65 per cubic yard.....	601 50
<sup>2</sup> Snow District No. 19.....	DeStefano Brothers.....	Mar. 18, 1920.	Completed March 7, 1920.....	65 per cubic yard.....	287 95
<sup>2</sup> Snow District No. 20.....	Edward J. McHugh.....	Mar. 30, 1920.	Completed March 11, 1920.....	65 per cubic yard.....	264 88

<sup>1</sup> Advertised and awarded to lowest bidder; carried over from fiscal year 1919-20.<sup>2</sup> Not advertised.

## SEWER AND SANITARY DIVISION — SEWER SERVICE.

## Sewerage Works.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantities, not Including Materials Furnished by City.	Amount Expended in 1920.
1 Kennebec street and outlet in private land and Ruskitt road, Dorchester and Hyde Park.	Frank Drinkwater.....	Feb. 7, 1920.	Completed Aug. 5, 1920.....	\$8,677 00	\$7,250 02
1 Stony brook conduit, section No. 10, West Roxbury.	West Roxbury Trap Rock Company.	Mar. 12, 1920.	Unfinished.....	109,052 00	52,627 75
1 Wollaston terrace from Woodrow avenue to Jones avenue, Dorchester.	T. Coughlin.....	May 20, 1920.	Completed June 3, 1920.....	1,181 25	918 30
1 Unity court, from Unity street 154 feet westerly and northerly, city proper.	William Barrett & Co.....	May 20, 1920.	Completed June 24, 1920.....	2,884 50	2,185 69
1 Berkeley street, from St. James avenue to Providence street, city proper	Coleman Brothers, Inc.....	May 24, 1920.	Completed Aug. 28, 1920.....	11,585 00	11,370 34
1 Mechanic street, from Madison court, 150 feet southerly, Roxbury	V. Grande.....	May 27, 1920.	Completed July 1, 1920.....	3,176 10	2,832 99
1 Falkland terrace, from Hobart street and Brookside road, Brighton.	J. W. O'Connell.....	June 16, 1920.	Completed July 13, 1920.....	4,199 50	3,909 33
1 Cunningham street, from Commonwealth avenue to Boston & Albany Railroad, Roxbury.	J. W. O'Connell.....	June 16, 1920.	Completed Aug. 7, 1920.....	6,198 40	5,747 30
1 Private land, outlet for Algonquin road, Newton, from Lake street to Newton line, Brighton.	John J. Lane.....	June 3, 1920.	Completed Sept. 17, 1920.....	18,885 00	14,905 97
1 Muddy river conduit in Brookline avenue, from Beacon street to Audubon road, Roxbury.	C. & R. Construction Company.	June 25, 1920.	Unfinished.....	280,118 00	48,851 60

1 Harvard street, from Fabyan street to Greenock street, Dorchester.	J. Guarino & Co.....	June 25, 1920.	Completed July 20, 1920.....	1,265 25	1,142 77
1 Lexington avenue, from Jefferson street about 156 feet Northerly, Hyde Park.	D. Vozzella Company.....	June 25, 1920.	Completed July 9, 1920.....	1,285 25	1,172 22
1 Public alley No. 909, from Hemenway street to Massachusetts avenue, Roxbury.	T. Coughlin.....	July 13, 1920.	Completed Sept. 23, 1920.....	11,132 00	10,215 76
1 Hastings street, from Centre street to Montview street, West Roxbury.	D. Vozzella Company.....	July 13, 1920.	Completed Aug. 23, 1920.....	5,319 25	4,921 73
1 Market street, from Lothrop street to Washington street, Brighton.	A. Cefalo.....	July 13, 1920.	Completed Oct. 30, 1920.....	23,332 50	21,472 02
1 Bridge court and North Anderson street; Bridge court, from North Anderson street about 97 feet easterly, and outlet in North Anderson street, between Parkman and Cambridge streets, city proper.	William Barrett & Co.....	July 13, 1920.	Completed Sept. 21, 1920.....	8,263 00	7,634 67
1 Loring street, from Foster street to Tyler street; outlet in Glenwood avenue, Hyde Park.	J. Guarino & Co.....	July 15, 1920.	Completed Aug. 23, 1920.....	2,738 25	2,294 95
1 Grosvenor place, from Cliff street about 246 feet south and southwesterly, Roxbury.	J. Guarino & Co.....	Aug. 3, 1920.	Completed Oct. 28, 1920.....	4,216 60	4,890 55
2 Chestnut Hill avenue, from Cleveland circle to Commonwealth avenue; and Glenville avenue, from Alston street and Greylock road, Brighton.	J. J. Conway.....	Aug. 11, 1920.	Completed Nov. 20, 1920.....	12,484 00	14,138 34
1 Private land and Paine street (near Brook street), from Canterbury branch of Stony brook and brook from Forest Hill Cemetery, West Roxbury.	Joseph Todesca.....	Aug. 11, 1920.	Completed Sept. 30, 1920.....	6,134 00	5,314 66
1 Private land and Babcock street, from Salt creek outlet and Commonwealth avenue, Brighton.	A. Cefalo.....	Aug. 29, 1920.	Completed Sept. 23, 1920.....	10,217 90	10,340 13
1 River street, from Hyde Park avenue and Central avenue, Hyde Park.	D. Vitello.....	Aug. 13, 1920.	Completed Oct. 17, 1920.....	4,261 00	3,844 57

## Sewerage Works.—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantities, not Including Materials Furnished by City.	Amount Expended in 1920.
1 Larch street, from South Crescent circuit to Kenrick street; Brayton road, from Kenrick street to Crescent avenue; South Crescent circuit, from South Crescent avenue to Regent street; South Crescent circuit and private land from Larch street to Regent street, Brighton.	L. Martiniello.	Aug. 16, 1920.	Completed Nov. 20, 1920.....	\$18,950 25	\$18,469 57
1 Saville and Wren streets, between Park and Oriole streets, and Beard of Survey street No. 664, between Wren street and Eminent road, West Roxbury.	James Barletta	Sept. 1, 1920.	Unfinished.....	40,961 50	14,397 72
1 South street, Leshor street and private land, and Archdale road, West Roxbury.	F. Drinkwater.	Sept. 9, 1920.	Completed Nov. 24, 1920.....	21,948 50	21,210 36
1 Murdock street, between North Beacon street and Cushman road; Cushman road, between Glencoe street and Dustan streets, Brighton.	J. J. Conway.	Sept. 22, 1920.	Completed Dec. 30, 1920.....	12,766 00	12,317 98
1 Fox Point road, from Savin Hill avenue about 134 feet southeasterly, Dorchester.	T. Coughlin.	Sept. 22, 1920.	Completed Oct. 3, 1920.....	859 60	515 78
1 Amory avenue, between Stony brook conduit and Amory street, Roxbury.	T. Coughlin.	Oct. 8, 1920.	Completed Dec. 4, 1920.....	5,768 00	3,669 31
2 Faragut road extension, from East First street about 250 feet northwesterly, South Boston	A. Baruffaldi	Oct. 8, 1920.	Unfinished.....	37,397 50	25,475 77
1 Cambridge street, between Hano and Wilkins street, Brighton.	J. Todesca.	Oct. 11, 1920.	Completed Nov. 6, 1920.....	3,128 75	2,421 48
1 Roanoke road, from Kennebec street about 105 feet northwesterly, Hyde Park.	G. J. Regan.	Oct. 18, 1920.	Completed Nov. 29, 1920.....	1,158 00	1,092 14

1 Huska street, from Oakland street about 1,125 feet northeasterly, Dorchester.	J. Guarino & Co.....	Oct. 18, 1920.	Unfinished.....	10,103 00	8,115 55
1 Alger street, from Dorchester avenue about 540 feet westerly, South Boston.	S. J. Tomasello.....	Oct. 20, 1920.	Completed Dec. 30, 1920.....	13,125 90	12,751 36
1 N and K street overflow extensions and dredging in Old Harbor, South Boston.	Bay State Dredging and Contracting Company.	Oct. 26, 1920.	Unfinished.....	51,393 00	7,730 75
1 Private land and Banfield avenue, between Delhi and West Shelden streets, Dorchester.	Daddario & Booth.....	Oct. 25, 1920.	Completed Dec. 16, 1920.....	7,968 70	4,128 59
2 Lubec street outlet in private land, between Cottage street and existing conduit, East Boston.	A. Cefalo.....	Oct. 25, 1920.	Not started.....	28,912 00	Nothing.
1 Castleton street, between Jamaica way and South Huntington avenue and Zamora street, between Castleton and Perkins streets, West Roxbury.	A. Cefalo.....	Oct. 25, 1920.	Completed Dec. 9, 1920.....	10,322 50	8,258 37
1 Williams and Forest Hills streets, from about 220 feet southeast of Plainsfield street to about 30 feet south of Williams street, West Roxbury.	J. Todesca.....	Nov. 2, 1920.	Unfinished.....	9,863 60	6,883 13
1 Private land, from Delhi street about 176 feet easterly, Dorchester.	J. J. Conway.....	Dec. 3, 1920.	Completed Jan. 15, 1921.....	5,318 75	4,819 75
1 Murray Court from Orleans street to end of Court, East Boston.	F. Williams.....	Dec. 10, 1920.	Completed Jan. 6, 1921.....	2,320 20	1,469 97
1 Building catch-basins, manholes and minor drains in Boston.	William Barrett & Co.....	May 20, 1920.	Completed Aug. 19, 1920.....	16,365 50	14,189 48
1 Building catch-basins, manholes, minor drains and surface drains in Boston.	V. Grande.....	Aug. 20, 1920.	Completed Oct. 19, 1920.....	7,699 25	7,043 80
1 Building catch-basins and minor drains in Boston.	William Barrett & Co.....	Sept. 22, 1920.	Unfinished.....	13,363 50	13,965 10

1 Advertised and awarded to lowest bidder.

2 Advertised and awarded to second lowest bidder.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Repairs to boiler No. 4 Calf Pasture Pumping station.	Daniel Russell Boiler Works, Inc.	June 21, 1920.	Completed July 7, 1920. ....	\$700 00	\$700 00
<sup>1</sup> Constructing new roof over coal pocket Calf Pasture pumping station.	Coleman Brothers, Inc. ....	July 15, 1920.	Completed Sept. 4, 1920. ....	18,815 00	17,458 24
<sup>1</sup> Repairs to boiler No. 5 Calf Pasture pumping station	Daniel Russell Boiler Works, Inc.	Aug. 23, 1920.	Completed Sept. 1, 1920. ....	900 00	900 00
<sup>1</sup> Cleaning sewers Cambridge street, under Boston & Maine and Boston & Albany Railroad, at East Somerville station, between Haverhill street and Somerville line, Charlestown.	Andrews Construction Company.	Oct. 25, 1920.	Completed Dec. 2, 1920. ....	2,190 00	2,712 00
<sup>1</sup> Repairs to Boiler No. 6 Calf Pasture Pumping station	Simpson Patent Dry Dock Company.	Nov. 2, 1920.	Completed Nov. 20, 1920. ....	2,730 00	2,730 00
<sup>1</sup> Cleaning sewers in Roland street, between Crescent street and Crafts street, Charlestown, and Public Alley number 817, off Gainsborough street, between St. Stephen street and Huntington avenue.	Andrews Construction Company.	Dec. 14, 1920.	Completed Dec. 30, 1920. ....	1,500 00	1,536 73
<sup>1</sup> New deck for coal run at Calf Pasture pumping station.	Hub Contracting Company. ....	Jan. 4, 1921.	Not started. ....	3,243 10	695 81
<sup>2</sup> Supervision of repairs to and overhauling of pumping engine No. 5 Calf Pasture pumping station.	A. B. Raymond. ....	Jan. 25, 1921.	Not started. ....	3,922 65	1,307 55
<sup>2</sup> Repairs to and overhauling of pumping engine No. 5.	Simpson Patent Dry Dock Company.	Jan. 21, 1921.	Unfinished. ....	784 53	

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>2</sup> Not advertised.

## Cleaning Catch-Basins.

DISTRICT.	Awarded to	Dated.	Progress of Work.	Price per Cubic Yard.	Amount Expended in 1920.
1 No. 1, City Proper.....	C. & R. Construction Com- pany.	March 1, 1920.	Completed Jan. 31, 1921....	\$1 90	\$12,007 88
1 No. 2, Back Bay, South End and Roxbury.....				1 80	10,105 99
1 No. 3, South Boston.....				1 80	3,797 62
1 No. 4, Charlestown and East Boston.....				1 80	4,205 33
1 No. 7, Dorchester and Hyde Park.....				2 00	10,980 64
1 No. 5, Brighton.....	James L. Pierce.....	March 8, 1920.	Completed June 30, 1920....	1 63	1,620 91
1 No. 6, West Roxbury.....				1 63	1,718 58
1 No. 6, West Roxbury.....	Dominick Vozzella.....	Oct. 3, 1920.	Completed Dec. 10, 1920....	3 30	3,192 81

1 Advertised and awarded to lowest bidder.

SEWER AND SANITARY DIVISION — SANITARY SERVICE.  
Collecting and Removing House Offal.

DISTRICT.	Awarded to	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1920.
1 East Boston .....	Hugh Cannon .....	Feb. 18, 1920.	Completed Jan. 31, 1921 .....	\$1 97	\$8,707 40
1 Brighton .....	Walter Griffin .....	Feb. 18, 1920.	Completed Jan. 31, 1921 .....	39	2,047 19
1 West Roxbury .....	M. H. Loonie .....	Feb. 18, 1920.	Completed Jan. 31, 1921 .....	1 70	6,643 27
1 Hyde Park .....	G. R. Tabi .....	Feb. 26, 1920.	Completed Jan. 31, 1921 .....	1 11	2,371 17
1 Dorchester .....	T. H. Gorman .....	Feb. 24, 1920.	Abandoned <sup>2</sup> .....	1 74	17,972 24
1 Dorchester .....	E. J. Byrne .....	Oct. 29, 1920.	Completed Jan. 31 1921 .....	2 75	11,075 41

<sup>1</sup> Advertised and awarded to lowest bidder.

<sup>2</sup> T. H. Gorman abandoned his contract. New contract made with E. J. Byrne.



## Collecting and Removing Ashes, Store Dirt, House Dirt and Refuse.

District.	Awarded to	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1920.
<sup>1</sup> East Boston.....	East Boston Contracting Company.	Feb. 18, 1920.	Completed Jan. 31, 1921....	\$0 60	\$26,119 23
<sup>1</sup> Brighton.....	McMurtry Brothers.....	Feb. 18, 1920.	Completed Jan. 31, 1921....	1 00	49,468 92
<sup>1</sup> West Roxbury.....	J. J. Moore.....	Feb. 18, 1920.	Completed Jan. 31, 1921....	55	19,330 03
<sup>1</sup> Dorchester.....	William J. Hunt.....	Feb. 24, 1920.	Completed Jan. 31, 1921....	62½	88,786 44
<sup>1</sup> Hyde Park.....	M. McGuinnis.....	Feb. 18, 1920.	Completed Jan. 31, 1921....	53	5,612 73

<sup>1</sup> Advertised and awarded to lowest bidder.

## Miscellaneous.

District.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Removing manure from the stables and yards in the various divisions.	J. N. Smith & Co.....	Feb. 5, 1920.	Completed Jan. 31, 1921....	\$3 30 *	* \$1,567 23
<sup>2</sup> One steam boiler and heat regulator furnished and set up.	D. J. Kinnally Company....	Dec. 6, 1920.	Completed Dec. 20, 1920....	953 00	953 00

<sup>1</sup> Advertised and awarded to highest bidder.<sup>2</sup> Not advertised.

\* Price per horse per year paid to city.

## Contracts In Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1920.
<sup>1</sup> Disposit of refuse for ten years. ....	Boston Development and Sanitary Company....	Feb. 1, 1912.	Unfinished....	\$1,432,000 00	\$140,000 00

<sup>1</sup> Advertised and awarded to lowest bidder.SEWER AND SANITARY DIVISION — STREET CLEANING AND OILING SERVICE.  
Furnishing Carts for Watering and Oiling Streets.

District.	Awarded to	Dated.	Progress of Work.	Price per Cart Per Day.		Amount Expended in 1920.
				Two-horse.	Three-horse.	
<sup>1</sup> No. 1, South Boston and Dorchester North ..	E. R. Wilson.....	April 28, 1920.	Completed Jan. 31, 1920....	\$9 41	\$10 41	\$7,168 08
<sup>1</sup> No. 2, East Boston and Breed's Island .....	Edward J. Mclough, Jr.....	April 28, 1920.	Completed Jan. 31, 1920....	8 50	9 00	1,967 75
<sup>1</sup> No. 3, Charlestown.....	Estate of P. O'Riordan.....	April 28, 1920.	Completed Jan. 31, 1920....	9 06	10 75	3,475 20
<sup>1</sup> No. 4, Brighton.....	Bernard Malone.....	May 6, 1920.	Completed Jan. 31, 1920....	10 00	10 00	4,535 00
<sup>1</sup> No. 5, West Roxbury .....	M. Mc Guiniss Company ..	April 28, 1920.	Completed Jan. 31, 1920....	12 00	.....	6,126 00
<sup>1</sup> No. 6, 9, Dorchester and Ashmont.....	Joseph P. McCabe.....	May 3, 1920.	Completed Jan. 31, 1920....	9 85	.....	6,232 59
<sup>1</sup> No. 7, Roxbury South and Jamaica Plain ..	Joseph A. Sprissler.....	April 28, 1920.	Completed Jan. 31, 1920....	11 00	11 00	9,149 25
<sup>1</sup> No. 8, South End and Roxbury North.....	C. R. Wilson.....	April 28, 1920.	Completed Jan. 31, 1920....	10 91	12 00	5,628 20
<sup>1</sup> No. 11, Hyde Park.....	T. Horrigan.....	April 28, 1920.	Completed Jan. 31, 1920....	8 50	8 50	2,796 50

<sup>1</sup> Advertised and awarded to lowest bidder.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount in 1920.
<sup>1</sup> Furnishing combination street sprinkling, flushing and oil-spreading motor trucks.	B. E. Grant Company . . .	April 16, 1920.	Completed Jan. 31, 1921 . . .	*\$32 00	\$51,560 00
<sup>2</sup> Furnishing and operating electric sprinkler car for sprinkling and flushing streets.	American Car Sprinkler Company.	April 22, 1920.	Completed Jan. 31, 1921 . . .	† 1,800 00	10,511 00
Repairing roof on brick stable, 650 Albany street. . . . .	William Martin . . . . .	June 24, 1920.	Completed Aug. 16, 1920 . . .	900 00	900 00

<sup>1</sup> Advertised and awarded to lowest bidder.

\* Per day.

† Per month.

<sup>2</sup> Not advertised.

# HIGH PRESSURE FIRE SERVICE. WATER DIVISION — WATER SERVICE. Laying and Relaying Water Pipes.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantities, not Including Materials Furnished by City.	Amount Expended in 1920.
1 D and Clafin streets, unnamed street, C and Eliot streets.	C. & R. Construction Company.	April 12, 1920.	Completed July 5, 1920....	\$13,697 50	\$13,045 39
1 Hastings, Walker and Centre streets, West Roxbury.	J. Barletta.....	April 28, 1920.	Completed Aug. 28, 1920....	4,658 75	8,019 98
1 Blackstone, Chambers, Friend, Richmond, Berkeley, East and South streets.....	C. & R. Construction Company.	May 18, 1920.	Completed July 10, 1920....	7,412 50	7,126 82
1 Wood avenue, Hyde Park; Athol, Raymond, Riverdale and Waverley streets, Brighton....	J. Barletta.....	May 20, 1920.	Completed July 26, 1920....	5,047 50	4,422 79
1 Landseer, Oriole and Centre streets, West Roxbury; Cushman road and Falkland terrace, Brighton.	L. DeSisto & Co.....	June 19, 1920.	Completed Sept. 3, 1920....	5,155 00	5,299 86
1 North, Commercial, Portland, Medford and Friend streets, Exeter place, Essex, Chauncy, Milk and Berkeley streets; high pressure fire service.	C. & R. Construction Company.	July 16, 1920.	Unfinished.....	111,859 00	50,357 00
1 Boylston and Burnett streets, West Roxbury...	J. Barletta.....	Aug. 9, 1920.	Completed Sept. 24, 1920....	2,940 00	2,718 39
1 Burt and Fuller streets, Theford avenue, Dorchester.	F. Drinkwater.....	Aug. 16, 1920.	Completed Oct. 21, 1920....	6,895 00	5,605 27
1 Condon street, city property abutting opposite Brooks street, East Boston.	J. Williams & Co.....	Sept. 1, 1920.	Completed Sept. 7, 1920....	630 00	434 75

1 Summer, Kneeland and Norway streets, Public alley No. 444, Poplar street, Kennard avenue and Marshfield street.	J. Williams & Co.	Sept. 1, 1920.	Unfinished.	7,553 75	4,943 34
1 Hilton, Oak, Tileston, Tyler, Washington and West streets, Hyde Park.	P. DeChristoforo	Sept. 16, 1920.	Completed Nov. 9, 1920.	4,652 50	3,131 65
1 Arbutus street, Dorchester; Nottingham road and Thorndike street, Brighton; West Roxbury Parkway and Willow street, West Roxbury.	J. Barletta	Sept. 22 1920.	Completed Dec. 31, 1920.	2,470 00	2,662 26
1 Alger street, South Boston, and Dilworth street, city proper.	J. Williams & Co.	Oct. 8, 1920.	Completed Oct. 14, 1920.	1,341 25	1,528 74
1 Washington, Groton, Laconia and Acton streets, city proper.	J. Williams & Co.	Oct. 13, 1920.	Unfinished.	5,420 00	1,961 83
2 Bullock street, South Boston.	J. T. Shea, Jr.	Oct. 22, 1920.	Completed Oct. 30, 1920.	1,926 75	1,988 22
1 Ashland, Florence, Poplar and Wachuset streets, West Roxbury.	J. Barletta.	Oct. 25, 1920.	Unfinished.	9,007 50	5,933 71
1 Atlantic avenue, Edison Electric alley, off 514 Atlantic avenue, Battery street and adjoining property of the Boston Elevated Railway Company, high pressure fire service.	T. D. Russo.	Nov. 12, 1920.	Unfinished.		7,810 63
1 Bunker Hill street, Charlestown.	D. Vozzella Company.	Dec. 3, 1920.	Completed Dec. 13, 1920.	786 25	689 73

1 Advertised and awarded to lowest bidder.

2 Advertised and awarded to second lowest bidder.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended.
2 Supplying water for Boston army base and warehouse 1 and 2, South Boston.	War Department.....	Feb. 2, 1920.	Completed June 30, 1920.	\$0.80 to \$1.10 per 1000 cubic feet.	*\$2,973 60
1 Replacing granolithic sidewalks in various parts of the city.	J. A. Singarella.....	Apr. 26, 1920.	Completed May 21, 1920.	.....	1,621 57
2 Pitometer survey of the Charlestown district.	Pitometer Company.....	May 14, 1920.	Completed Aug. 15, 1920.	\$3,800 00.....	3,800 00
1 Repairing over Water Division openings, city proper, South End and Dorester avenue.	Central Construction Company.	May 22, 1920.	Completed Aug. 3, 1920.	\$5,300 00.....	5,394 23
2 Supplying water to Lockwood's basin, East Boston, ending June 30, 1921.	City of Boston.....	June 11, 1920.	Unfinished.....	Meter rates.	.....
2 Supplying water to Navy yard, Boston, ending June 30, 1921.	City of Boston.....	June 11, 1920.	Unfinished.....	Meter rates.	43,150 00
2 Pitometer water waste survey of Brighton district	Pitometer Company.....	Aug. 11, 1920.	Completed Nov. 11, 1920	\$2,500 00.....	2,500 00
1 Painting Orient Heights standpipes, East Boston.....	W. H. Ellis & Son Company....	Aug. 16, 1920.	Completed Sept. 11, 1920.	\$1,152 00.....	1,152 00
1 Carolina and Chestnut avenues, Chestnut square, Greenough avenue, Jamaica, Newburn, Oakdale, Sedgewick, Sherwood and Seacombe streets, Union avenue and Wenham street, West Roxbury, cleaning water pipes.	National Water Main Cleaning Company.....	Aug. 16, 1920.	Completed Sept. 10, 1921.	\$3,114 50.....	3,083 20
2 Furnishing and erecting two (2) pumping plants for high pressure fire service in the Lincoln power station of the Boston Elevated Railway Company, Commercial street, and in the thirty-eight station property of the Edison Electric Illuminating Company, Atlantic avenue.	Westinghouse Electrical and Manufacturing Company....	Oct. 2, 1920.	Unfinished.....	\$174,469 00.....	.....
1 Repairing artificial stone sidewalks and blocks in various parts of the city.	D. Vozzella Company.....	Oct. 8, 1920.	Completed Nov. 1, 1920.	\$1,482 00.....	1,650 96

1 Pearl street, city proper; Second, D and L streets, South Boston, cleaning water pipes.	National Water Main Cleaning Company.	Oct. 13, 1920.	Completed Oct. 21, 1920.	\$3,312 00.	3,098 32
Pitometer water waste survey of the South Boston distribution system and a portion of the South End.	Pitometer Company.	Oct. 18, 1920.	Unfinished.	\$10,000 00.	2,833 33
4 Water tower, Orient Heights, remove shingles from roof and put on asphalt shingles.	J. Harrigan & Sons.	Oct. 21, 1920.	Completed.	\$800 00.	800 00
1 Columbus avenue, water pipe, bridge over Boston & Albany Railroad, cleaning and painting.	M. M. Devine.	Nov. 5, 1920.	Completed Dec. 31, 1920.	\$775 00.	775 00
2 Lease of space in the Lincoln power station property, corner Commercial and Battery streets, for high pressure fire-service pumping station.	Boston Elevated Railway Company.	Nov. 17, 1920.		\$1 00 a year.	
2 Purchase of steam for high pressure pumping station located in the Lincoln power station property, Commercial and Battery streets.	Boston Elevated Railway Company.	Nov. 17, 1920.		\$200 00 per month.	
1 Everett, Franklin, Cambridge and North Harvard streets, Brighton, cleaning water pipes.	National Water Main Cleaning Company.	Dec. 14, 1920.	Completed Dec. 31, 1920.	\$3,664 00.	3,067 96
2 Lease of space for high pressure pumping station at the third station property on Atlantic avenue.	Edison Electric and Illuminating Company.	Jan. 12, 1921.		\$2,400 00 a year.	
1 Lease of space for high pressure pumping station at the thirty-eight station property on Stuart street.	Edison Electric and Illuminating Company.	Jan. 12, 1921.		\$2,400 00 a year.	
2 Agreement for purchase of electricity for high pressure pumping stations for the city, located in the third station property, Atlantic avenue and thirty-eight station property, Stuart street.	Edison Electric and Illuminating Company.	Jan. 12, 1921.		Schedule rates.	
Repairing pier and fender girders, Warren bridge	W. S. Rendle.	Jan. 28, 1921.	Unfinished.	\$5,762 00.	

1. Advertised and awarded to lowest bidder.

2. Not advertised.

The following table shows the snowfall and rainfall since 1914:

**Snowfall (inches).**

MONTH.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
January.....	10.3	7.0	4.8	13.1	13.8	4.1	34.8
February.....	20.6	5.1	30.3	8.9	5.7	6.2	32.5
March.....	5.2	T.	33.0	12.9	12.8	2.4	11.0
April.....	2.0	6.1	4.2	9.1	4.2	.....	2.0
November.....	.....	0.2	0.7	2.2	T.	0.2	1.8
December.....	4.1	6.7	9.5	7.0	8.4	2.9	5.5
Totals.....	42.2	25.1	82.5	53.2	44.9	15.8	77.6

**Rainfall (inches).**

MONTH.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
January.....	3.26	6.33	1.23	2.82	3.11	3.62	2.72
February.....	3.07	3.47	5.18	2.67	2.30	2.66	5.88
March.....	4.16	T.	3.20	3.73	3.19	4.11	3.72
April.....	5.87	1.86	4.51	2.72	3.08	2.33	5.68
May.....	2.78	1.64	2.83	4.45	1.99	4.25	5.26
June.....	1.40	1.39	5.04	4.05	1.94	1.08	5.78
July.....	2.64	8.85	5.67	1.10	2.64	4.63	1.56
August.....	3.20	5.63	2.19	7.06	1.56	5.07	2.32
September.....	0.21	0.69	1.90	1.91	9.19	5.83	1.90
October.....	1.54	2.82	0.94	5.33	0.99	2.13	1.64
November.....	2.72	2.14	1.67	0.59	1.20	5.36	5.46
December.....	3.46	3.94	3.00	2.56	3.21	1.63	3.89
Totals.....	34.31	38.76	37.36	38.99	34.40	42.70	45.81

In this rainfall is included the precipitation during the winter months, which equals one tenth of an inch to one inch of snowfall.



## Area of Pavements.

The Following Table Shows Areas in Square Yards and Character of Pavements on Accepted Streets, February 1, 1921.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1919 report.....	713,885	479,521	2,484,834	260,214	36,606	114,476	26,062	6,648,728	499,237	128,179	11,391,742
Per cent.....	6.27	4.21	21.81	2.28	0.32	1.01	0.23	58.36	4.38	1.13	100.00
February 1, 1921.											
City proper.....	329,813	173,826	925,775	183,487	7,686	10,083	1,717	364,543	2,488	5,346	2,004,764
Charlestown.....	6,518	.....	269,436	2,029	4,020	756	672	158,785	685	511	443,412
East Boston.....	49,648	1,988	139,375	.....	1,817	771	.....	468,683	14,405	.....	676,687
South Boston.....	31,483	30,639	428,941	13,462	5,624	3,081	.....	386,727	13,746	40,103	953,806
Roxbury.....	105,342	73,355	348,362	24,263	1,417	53,373	2,525	1,016,778	23,276	945	1,646,636
West Roxbury.....	72,038	94,060	94,701	583	2,280	.....	3,958	1,331,843	73,729	37,130	1,710,322
Dorchester.....	75,435	113,728	238,601	40,958	6,153	47,873	1,735	1,738,399	83,470	7,521	2,353,873
Brighton.....	92,731	68,813	56,949	3,675	3,847	.....	15,466	710,535	47,890	8,468	1,008,374
Hyde Park.....	14	4,289	8,243	.....	55,302	.....	.....	361,906	216,490	16,711	612,955
Totals.....	*763,022	†560,698	‡2,510,383	268,457	38,146	112,937	§24,073	6,538,199	476,179	116,735	11,410,829
Per cent.....	6.69	4.91	22.00	2.35	0.34	0.99	0.23	57.30	4.17	1.02	100.00

NOTE.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* of this amount 470 square yards equals Unionite.

† Of this amount 774 square yards equal asphalt blocks.

‡ Of this amount 1,069,116 square yards equal granite block paving on concrete base and 1,168 square yards equal bitulithic; 1,614 square yards equal Endurite; 959 square yards equals Filbertine; and 188,254 square yards equal Topeka.

§ Of this amount 946 square yards equal Blome Granitoid concrete-blocked pavement and 1,250 square yards equal Roman road pavement.

|| Of this amount 2,337,718 square yards equal bituminous macadam.

31,346 square yards public alleys included in this table.

275,008 square yards public streets in charge of Park and Recreation Department included in this table.

55,088 square yards public streets in charge of Commonwealth of Massachusetts.

In addition to this table there are 6,719 square yards of accepted footways.

## Length of Pavements.

The Following Table Shows Length in Miles and Character of Pavements on Accepted Streets, February 1, 1921.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1919 report	41.40	23.65	104.09	10.66	1.70	5.46	1.86	379.90	32.13	2.26	603.71
Per cent.	6.86	3.92	17.34	1.77	0.28	0.90	0.31	62.93	5.32	0.37	100.00
February 1, 1921.											
City Proper	19.52	7.46	40.17	7.35	0.32	0.56	0.20	20.03	0.23	0.16	96.00
Charlestown	0.41	.....	11.98	0.08	0.17	0.03	0.03	10.67	0.06	.....	23.43
East Boston	2.17	0.11	6.39	.....	0.11	0.04	.....	22.83	0.70	.....	32.35
South Boston	2.51	1.68	17.84	0.78	0.24	0.13	.....	20.58	0.72	1.46	45.94
Roxbury	5.98	3.93	15.05	1.12	0.05	2.69	0.17	60.07	1.78	0.05	90.89
West Roxbury	4.96	5.05	3.20	.....	0.11	.....	0.32	81.43	4.21	0.27	99.55
Dorchester	4.82	6.38	9.73	1.65	0.25	1.94	0.09	103.22	5.20	0.05	133.33
Brighton	3.51	3.07	0.79	0.08	0.21	.....	1.05	36.17	3.25	0.05	48.18
Hyde Park	.....	.....	0.08	.....	0.30	.....	.....	20.28	14.23	0.24	35.13
Totals	*13.88	†27.68	‡105.23	11.06	1.76	5.39	\$1.86	‡375.28	30.38	2.28	604.80
Per cent.	7.25	4.58	17.40	1.83	0.29	0.89	0.31	62.05	5.02	0.38	100.00

NOTE.—In above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline included in City Proper.

\* Of this amount 0.02 mile equal granite.

† Of this amount 0.02 mile equals asphalt blocks; 17.32 miles equals bitulithic; 0.06 mile equals filterstone and 10.28 miles equals Topeka.

‡ Of this amount 38.87 miles equals granite block paving on concrete base, and 0.12 mile equals cobble.

§ Of this amount 0.06 miles equals Blaine Granite concrete blocked pavement, and 0.08 mile equals Roman road pavement.

|| Of this amount 121.21 miles equal bituminous macadam.

5.96 miles public alleys included in this table.

6.27 miles public streets in charge of Park and Recreation Department included in this table.

1.81 miles public streets in charge of the Commonwealth of Massachusetts included in this table.

In addition to this table there are 1.31 miles of accepted roadways.

The following changes in pavement were made during the year:

0.00 mile or 31 square yards asphalt changed to granite block.  
 0.26 mile or 3,886 square yards asphalt changed to wood block.  
 0.00 mile or 41 square yards asphalt changed to bitulithic.  
 0.00 mile or 72 square yards asphalt changed to Topeka.  
 0.73 mile or 23,097 square yards granite block changed to asphalt.  
 0.09 mile or 2,623 square yards granite block changed to wood block.  
 0.01 mile or 132 square yards granite block changed to bitulithic.  
 0.00 mile or 782 square yards granite block changed to Topeka.  
 0.00 mile or 12 square yards brick changed to asphalt.  
 0.06 mile or 1,540 square yards brick changed to plank on bridges.  
 0.01 mile or 279 square yards bitulithic changed to asphalt.  
 0.00 mile or 43 square yards Topeka changed to asphalt.  
 1.58 miles or 23,422 square yards macadam changed to asphalt.  
 0.98 miles or 43,642 square yards macadam changed to granite block.  
 0.05 mile or 1,359 square yards macadam changed to wood block.  
 0.39 miles or 10,846 square yards macadam changed to bitulithic.  
 2.13 miles or 33,690 square yards macadam changed to Topeka.  
 0.00 mile or 3,725 square yards macadam changed to gravel.  
 0.55 mile or 7,544 square yards gravel changed to asphalt.  
 0.30 mile or 4,098 square yards gravel changed to granite block.  
 1.28 mile or 21,028 square yards gravel changed to Topeka.  
 0.48 mile or 7,404 square yards gravel changed to macadam.  
 0.00 mile or 2,297 square yards not graded changed to granite block.  
 0.05 mile or 1,200 square yards not graded changed to bitulithic.  
 0.00 mile or 10,073 square yards not graded changed to Topeka.  
 0.00 mile or 1,281 square yards not graded changed to macadam.  
 0.00 mile or 1,355 square yards not graded changed to wood block.  
 0.02 miles or 474 square yards granite block changed to Unionite.

Streets laid out or discontinued by the Street Commissioners during the year show:

Asphalt increased 0.00 mile or 568 square yards.  
 Granite block increased 0.09 mile or 1,929 square yards.  
 Macadam decreased 0.00 mile or 455 square yards.  
 Gravel increased 0.86 miles or 13,331 square yards.  
 Not graded increased 0.08 mile or 2,708 square yards.  
 Wood block increased 0.00 miles or 15 square yards.  
 Bitulithic increased 0.00 miles or 48 square yards.

Corrections on account of revision and other causes show:

Asphalt decreased 0.13 mile or 1,494 square yards.  
 Granite block increased 0.02 mile or 618 square yards.  
 Wood block decreased 0.00 mile or 959 square yards.  
 Bitulithic decreased 0.05 mile or 504 square yards.  
 Topeka increased 0.21 mile or 1,370 square yards.  
 Macadam increased 0.03 mile or decreased 1,804 square yards.  
 Gravel decreased 0.00 mile or increased 40 square yards.  
 Not graded decreased 0.01 mile or increased 1,863 square yards.  
 Brick decreased 0.01 mile or increased 73 square yards.  
 Cobble increased 0.00 mile or 38 square yards.  
 Concrete increased 0.00 mile or 11 square yards.

Public streets laid out or discontinued by the Street Commissioners during the year show pavements increased 1.3 miles or 18,144 square yards.

Corrections to previous measurements on account of revision and other causes show pavements increased 0.06 mile or increased 943 square yards.

Total net increase 1.09 miles or 19,087 square yards.

The rate of increase from year to year is shown in the following table:

1859.....	111.50	1888.....	392.72	1906.....	502.80
1871.....	201.32	1889.....	397.84	1907.....	510.04
1872.....	207.40	1890.....	404.60	1908.....	511.60
1873.....	209.24	1891.....	409.60	1909.....	514.28
1874.....	313.90	1892.....	434.59	1910.....	518.63
1875.....	318.58	1893.....	443.34	1911.....	521.21
1876.....	327.50	1894.....	447.65	1912.....	561.36
1877.....	333.20	1895.....	452.12	1913.....	567.51
1878.....	340.39	1896.....	456.11	1914.....	572.85
1879.....	345.19	1897.....	459.12	1915.....	584.55
1880.....	350.54	1898.....	471.19	1916.....	593.62
1881.....	355.50	1899.....	479.47	1917.....	596.19
1882.....	359.85	1900.....	489.55	1918.....	601.12
1883.....	367.99	1901.....	491.85	1919.....	601.07
1884.....	374.10	1902.....	496.90	1920.....	603.71
1885.....	379.60	1903.....	499.85	1921.....	604.80
1886.....	383.55	1904.....	500.39		
1887.....	390.30	1905.....	502.20		

LIST OF PERSONAL PROPERTY ON HAND JANUARY 31, 1921,  
AND ESTIMATED VALUE OF SAME, ALLOWING FOR DEPRE-  
CIATION.

*Central Office.*

1 automobile	\$2,000 00
2 robes	20 00
Office supplies	500 00
	<hr/>
	\$2,520 00

*Bridge Service.*

5 robes	\$15 00
2 automobiles	900 00
3 auto trucks	2,500 00
Supplies, tools	6,500 00
	<hr/>
	\$9,915 00

*Ferry Service.*

7 ferryboats	\$163,173 00
Supplies, tools, machinery, etc.	24,000 00
	<hr/>
	\$187,173 00

*Lighting Service.*

9,708 lamp-posts . . . . .	\$97,080 00
300 lamp brackets . . . . .	300 00
1 automobile . . . . .	200 00
1 robe . . . . .	10 00
1 typewriter . . . . .	50 00
	<hr/>
	\$97,640 00
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*Paving Service.*

1 large concrete mixer . . . . .	\$2,200 00
5 small concrete mixers . . . . .	1,500 00
3 bituminous mixers . . . . .	7,500 00
224 harnesses . . . . .	2,240 00
247 blankets . . . . .	247 00
23 buggies . . . . .	345 00
13 pungs . . . . .	260 00
7 sleighs . . . . .	70 00
13 jiggers . . . . .	520 00
23 wagons . . . . .	920 00
11 street watering carts . . . . .	1,375 00
4 road scrapers . . . . .	1,200 00
80 dump carts . . . . .	6,400 00
103 horses . . . . .	25,750 00
13 snow levelers . . . . .	390 00
5 section rollers . . . . .	200 00
11 steam rollers . . . . .	16,500 00
32 desks . . . . .	320 00
956 picks . . . . .	478 00
1,441 shovels . . . . .	720 00
8 scarifiers . . . . .	2,080 00
7 automobiles . . . . .	2,800 00
1 truck . . . . .	300 00
3 electric tractors . . . . .	4,800 00
Supplies, tools, machinery, surveying instru- ments, engineers' supplies, etc. . . . .	49,000 00
	<hr/>
	\$128,115 00
	<hr/>

*Sanitary Service.*

3 automobiles . . . . .	\$2,000 00
5 auto trucks . . . . .	800 00
315 horse blankets . . . . .	315 00
17 buggies . . . . .	425 00
210 carts . . . . .	21,000 00
239 shovels . . . . .	120 00
244 harnesses . . . . .	4,880 00
	<hr/>

*Carried forward . . . . .* \$29,540 00

<i>Brought forward</i> . . . . .	\$29,540 00
204 horses . . . . .	51,000 00
72 wagons . . . . .	6,480 00
21 desks . . . . .	210 00
6 sleighs . . . . .	60 00
74 pungs and sleighs . . . . .	1,480 00
Supplies, tools, machinery, etc. . . . .	15,000 00
	<hr/>
	\$103,770 00

*Street Cleaning and Oiling Service.*

8 automobiles and 3 trucks . . . . .	\$2,500 00
129 carts . . . . .	12,900 00
10 buggies . . . . .	150 00
38 street watering carts . . . . .	3,800 00
19 wagons . . . . .	1,520 00
215 harnesses . . . . .	4,300 00
154 horses . . . . .	38,500 00
40 street sweeping machines . . . . .	5,600 00
11 flushing machines . . . . .	3,850 00
153 push carts . . . . .	1,530 00
1,266 street sweeping brooms . . . . .	1,260 00
915 shovels . . . . .	457 00
675 picks . . . . .	337 00
15 snow ploughs and 5 road machines . . . . .	2,800 00
2 Elgin street sweeping machines . . . . .	6,500 00
Supplies, tools, machinery, etc. . . . .	12,000 00
	<hr/>
	\$98,010 00

*Sewer Service.*

481 picks . . . . .	\$240 00
6 automobiles . . . . .	1,400 00
1 truck . . . . .	250 00
27 horses . . . . .	6,750 00
23 wagons . . . . .	1,150 00
7 buggies . . . . .	140 00
18 carts . . . . .	1,440 00
45 harnesses . . . . .	450 00
50 blankets . . . . .	50 00
3 sleighs . . . . .	30 00
291 shovels . . . . .	145 00
Derricks, centrifugal pumps, dynamos, boilers, engineers' tools, machinery, instruments, and supplies, etc. . . . .	345,000 00
	<hr/>
	\$357,045 00

*Water Service.*

15 automobiles and 20 trucks . . . . .	\$20,000 00
22 horses . . . . .	5,500 00
27 wagons . . . . .	1,350 00
1 buggy . . . . .	20 00
2 sleighs . . . . .	30 00
2 pungs . . . . .	20 00
Shovels, picks and miscellaneous stock, consisting of all kinds and sizes of iron water pipe, meters, hydraulic machinery, boilers, etc. . . . .	408,000 00
	<hr/>
	<u>\$434,920 00</u>

## Real Property in Charge of the Bridge and Ferry Division.— (Bridge Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
170 Broadway extension, South Boston; 5,510 feet of land on Broadway extension and Dorchester avenue, on which is a brick building containing an office, workshop and stable; 1,176 square feet of this land is occupied by a convenience station. The equipment was removed to 710 Albany street in 1918.	\$1 00	\$5,500 00	\$24,500 00	\$30,000 00
LOCATION.				
BROADWAY BRIDGE.				
Draw house and one storehouse. ....	Draw house, \$800; storehouse, \$200. ....			\$1,000 00
CHARLESTOWN BRIDGE.				
Draw house, electrical power room and six storehouses*. ....	Draw house, \$3,000; power room, \$1,000. ....			4,000 00
CHELSEA BRIDGE NORTH.				
Draw house. ....				2,500 00
CHELSEA BRIDGE SOUTH.				
Draw house, engine house and surface draw house. ....				2,500 00
CHELSEA STREET BRIDGE.				
Draw house. ....	Draw house, \$1,800. ....			1,800 00



CONGRESS STREET BRIDGE.		
Draw house, storehouse and two shelter houses.....	Draw house, \$1,000; storehouse, \$100; shelter house, \$500.	1,600 00
DOVER STREET BRIDGE.		
Draw house and two shelter houses.....	Draw house, \$1,000; shelter house, \$500.....	1,500 00
DORCHESTER AVENUE BRIDGE.		
Draw houses, tool sheds, two motor houses and one controller house.....	Draw house, \$1,000; motor houses, \$300; tool house, \$200; controller house, \$25.	1,525 00
GRANITE AVENUE BRIDGE.		
Tool house and controller house. In charge of Granite Avenue Bridge Commission.....	Tool house, \$100; controller house, \$100.....	200 00
Draw house and engine house.....	Draw house, \$1,000; engine house, \$500.....	1,500 00
MALDEN BRIDGE.		
Draw house owned by Boston Elevated Railway Company. Some maintenance charges borne by City of Boston.		
MERIDIAN STREET BRIDGE.		
Draw house and tool house.....	Draw house, \$2,500; tool house, \$100.....	2,600 00
NEPONSET BRIDGE.		
Tool house. Control of this bridge taken over by Metropolitan Park Commission October 28, 1918.		
NORTHERN AVENUE BRIDGE.		
Draw house, containing a power room and storage room for compressed air and tool house.....	Draw house, \$4,500; tool house, \$100.....	4,600 00
SUMMER STREET OVER RESERVED CHANNEL (formerly L Street Bridge.)		

\*Five leased to M. P. Coleman for \$2,697 per year, lease expires January 31, 1922.

## Real Property in Charge of the Bridge and Ferry Division.— (Bridge Service.) — Concluded.

LOCATION.	Estimated Value of Buildings.	Total Value.
SUMMER STREET BRIDGE OVER FORT POINT CHANNEL.		
Draw house, controller house, two shelter houses and tool house.....	Draw house, \$3,000; controller house, \$250; shelter houses, \$500; tool house, \$100.	\$3,850 00
WARREN BRIDGE.		
Stable, draw house, containing an engine room and boiler room and a tool house.....	\$3,500 .....	3,500 00
Warren avenue, between Water street and the railroad, used by Election Department for storage of election booths.		
WESTERN AVENUE BRIDGE TO WATERTOWN.		
Tool house .....	\$200 .....	200 00

## Real Property in Charge of the Bridge and Ferry Division.—(Ferry Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
South Ferry, East Boston side, located at the termination of Lewis street. On these premises are one headhouse with canopies, one workshop for carpenters, machinists and blacksmiths, one storehouse, one coal pocket, three piers which form the two slips, two drops and tanks, one wharf and dock.	* 33,196 at \$1 75 † 4,700 at 2 00 * 16,879 at 1 50 † 2,000 at 1 75	\$96,300 00	\$43,000 00	\$139,300 00
South Ferry, Boston side, located at the termination of Eastern avenue. On these premises are one headhouse with canopies, one gate room, three piers which form the two slips and two drops and tanks.	25,500 at 2 00	51,100 00	74,900 00	126,000 00
North Ferry, East Boston side, located at the termination of Border street. On these premises are one headhouse with canopies, one boiler, one coal pocket, three piers which form the two slips and two drops and tanks.	† 18,876 at 2 00 * 42,262 at 1 75	111,800 00	58,000 00	169,800 00
North Ferry, Boston side, located at the termination of Battery street. On these premises are one headhouse with canopies, one gate room, three piers which form the two slips and two drops and tanks.	† 10,511 at 3 50 * 34,600 at 2 00	106,000 00	69,000 00	175,000 00
† Eastern avenue, No. 60, adjoining South Ferry Headhouse, Boston side. Upon this lot is a house and office building owned by Patrick J. Connolly.				

\* Wharves and docks.

† Solid.

‡ Land rented to Patrick J. Connolly for \$200 per year.

## Real Property in Charge of the Highway Division.— (Paving Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
Columbia road, corner of H street, stable, carriage house, shed, tool house and office built by the city on land containing 12,017 square feet, rented from Reuben Oenoff.	\$0 40	\$1,800 00	\$900 00	\$5,700 00
Columbia road, corner Hamlin street, lot of land used for storage purposes, containing 6,710 square feet, owned by Frank E. Briggs and rented from Charles P. Mooney, agent.	25	1,800 00	.....	1,800 00
EAST BOSTON.				
East Eagle street, corner Condor street, sheds, stable and office building erected by the city on wharf property containing 61,636 square feet, owned by Alice M. Coleman and rented for the sum of \$1,800 a year. This property is used jointly with the Sewer, Sanitary, Street Cleaning and Oiling Services and Water Service.*	.....	24,700 00	6,800 00	31,500 00
CHARLESTOWN.				
McIlford street, foot of Elm street, wharf property containing 44,700 square feet (Sur. Prog. 968), owned by the city. Upon this lot are a shed, stable and office building.	75	33,400 00	8,600 00	42,000 00
BRIGHTON.				
Chestnut Hill avenue, ledge lot containing 569,776 square feet (L. 1,630), purchased in 1882 by the city. Upon this lot are stone crusher, stable, shed and office building and oil plant.	15	79,800 00	5,500 00	85,300 00
WEST ROXBURY.				
Child street, lot of land containing 43,024 square feet, owned by the city. Upon this lot are sheds, stable and office building. (See Sewer Service.)	45	19,300 00	3,500 00	22,800 00
Morton street, near Canterbury street, lot of land containing 14,484 square feet, owned by the city and used for storage purposes.	10	1,400 00	.....	1,400 00
Centre street, rear of 1932, lot of land used for storage purposes, hired for \$180 per year.				

<b>DORCHESTER.</b>					
Hancock street, opposite Bowdoin street, lot of land known as the almshouse lot, containing 104,132 square feet, which belonged to the town of Dorchester at the time of annexation. Upon this land are two stables, office, shed and tool house.	18	19,000 00	8,000 00	27,000 00	
Downer avenue, lot of land containing 35,300 square feet, was purchased in 1871 to protect the almshouse lot. (Seven lots.)	8c. and 10c.	3,300 00	.....	3,300 00	
Codman street, ledge lot containing 299,000 square feet, was purchased in 1870. Upon this lot are a stable and tool house; 111,423 square feet additional bought by the city in 1907.	05	21,700 00	2,000 00	23,700 00	
<b>ROXBURY.</b>					
Highland street, lot of land containing 195,129 square feet, owned by the city. Upon this lot is a large brick stable erected in 1873-74 and used by the Sanitary-Street-Cleaning and Paving Services; also a brick building used as a blacksmith shop, and a shed for storage purposes.† (See Sanitary Service.)					
<b>SOUTH END.</b>					
Albany street, No. 636, opposite Sharon street, wharf lot, containing 63,200 square feet, owned by the city. Upon this lot are stables, office, blacksmith and carpenter shops.	1 25	79,000 00	3,800 00	82,800 00	
Wharf lot adjoining the above, containing 65,535 square feet, owned by the city and used for storage purposes and receiving station for Sanitary Service. These wharves are owned by the city.	90	56,700 00	7,300 00	64,000 00	
Massachusetts avenue, near Magazine street, lot of land, containing 1,452,628 square feet, rented from New York, New Haven & Hartford Railroad Company and used for storage purposes.†	80	1,162,100 00	27,500 00	1,189,600 00	
<b>NORTH END.</b>					
Commercial street, No. 521, wharf lot, containing 23,667 square feet, owned by the city. Upon this lot is an office building. Buildings destroyed January 15, 1919, by tank accident.	2 49	79,900 00	1,000 00	80,900 00	
<b>HYDE PARK.</b>					
Hyde Park avenue, lot containing 16,541 square feet, owned by the city, used in part by police station. On this lot are an office, stable and shed.‡	1 00	9,900 00	11,500 00	21,400 00	

\* This price to be increased from March 1, 1920, to \$2,400 a year.

† These estates are only partly occupied by the City of Boston.

‡ These estates are only partly occupied by the Paving Service.

## Real Property in Charge of the Sewer and Sanitary Division. — (Sanitary Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
H and Second streets, stable and sheds, containing 8,590 square feet. Leased from E. M. & M. J. Mahoney.	30c. and 40c., land 8,590 feet . . . . .	\$2,900 00	\$2,500 00	\$5,400 00
CHARLESTOWN.				
263 Rutherford avenue. (See Street Cleaning and Oiling Service).				
DORCHESTER.				
Victory road (formerly South street), near Freeport street, lot of land taken in 1912 for refuse transfer station. Completed January 4, 1913.	37,990 feet valued as part of 78,458 feet at \$0.08.	About \$7,600 00	67,000 00	74,000 00
ROXBURY.				
Massachusetts avenue and Southampton street, weighing shed, containing about 2,300 square feet of land, leased from the Boston Consolidated Gas Company at \$10 per month.				
Ward street, northerly side, near New York, New Haven & Hartford Railroad, containing 12,500 square feet. (See letter of Street Commissioners, January 6, 1914.)	35,553 square feet at \$0.30 . . . . .	About \$10,700 00	20,000 00	30,700 00
Highland street, formerly almshouse, containing 195,129 square feet. Upon this lot are stable, sheds, carriage house. A part of this stable and lot is used by the Paving Service and Street Cleaning and Oiling Service.	.....	78,100 00	51,000 00	129,100 00

## SOUTH END.

Albany street, No. 650, containing 90,800 square feet. Upon this lot are stables, buildings, sheds, veterinary hospital, blacksmith, wheelwright, paint and harnessmaker's shops, also a horseshoeing shop used in part by the Street Cleaning and Sewer Service.

Albany street, No. 636, refuse transfer station, which was completed March 21, 1913.\*

## WEST END.

North Grove street, stables, sheds, etc., containing 45,152 square feet. On May 11, 1896, a horseshoeing shop was established, used in part by the Street Cleaning and Oiling Service.

## NORTH END.

Fort Hill Wharf, containing 20,750 square feet and used as a dumping station for the city's garbage and refuse. On this wharf a refuse transfer station was erected in 1912.

## SPECTACLE ISLAND.

Four parcels of land, containing 266,500 square feet, taken for a refuse destructor site. Upon this site a refuse destruction plant has been erected by the Boston Development and Sanitary Company.

.....	114,000 00	29,000 00	143,000 00
\$2.25.....	101,600 00	62,500 00	164,100 00
14,150 feet at \$12; 2,800 feet at \$3; 3,800 feet at \$1.50.	183,900 00	65,000 00	248,900 00
.....	18,100 00	90,400 00	108,500 00

\*See Paving Service.

## Real Property in Charge of the Sewer and Sanitary Division. — (Street Cleaning and Oiling Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON. Yard and stable at 124 Old Harbor street, corner of Columbia road, leased by the city from D. W. Creed at \$75 per month.				
EAST BOSTON. Part of stable on East Eagle street. (See Paving Service.)				
CHARLESTOWN. Stable at 263 Rutherford avenue, and office building, used in common with Sanitary Service. Stable at 245-249 Rutherford avenue, now occupied under lease for \$600 per year by Timothy F. Callahan.				
	\$0 60	\$22,100 00	\$8,300 00	\$30,400 00
ROXBURY. Stable on Highland street. (See Sanitary Service.)				
SOUTH END. Part of stable at 650 Albany street. (See Sanitary Service.)				
WEST END. Part of stable on North Grove street. (See Sanitary Service.)				
DORCHESTER. Gibson street, land and buildings containing stable and sheds, used by Sanitary and Sewer Services, contains 21,280 square feet. (See Water Service.)				
	.....	7,400 00	5,000 00	12,400 00



## Real Property in Charge of the Sewer and Sanitary Division.— (Sewer Service.)

LOCATION.	Estimated Value of Land.	Estimated Value of Buildings.	Total Value.
<b>SOUTH BOSTON.</b>			
Summer street, underground pumping station.			
<b>EAST BOSTON.</b>			
East Eagle street, yard and buildings leased from Renton Whidden. (See Paving Service.)			
<b>BRIGHTON.</b>			
Western avenue. (See Water Service.)			
<b>WEST ROXBURY.</b>			
Child and South streets, yard and buildings occupied in common with Paving Service. (See Paving Service.)			
<b>DORCHESTER.</b>			
Gibson street, land. (See Street Cleaning Service.)			
Old Harbor Point, land and buildings, including pumping station, 22½ acres; 45,729 square feet, more or less, on the westerly side of Mt. Vernon street, exchanged with the Boston Consolidated Gas Company for 51,000 square feet, more or less, on the easterly side of Mt. Vernon street.	\$196,000 00	\$617,500 00	\$813,500 00
<b>SOUTH END.</b>			
* Albany street, No. 678, yard and buildings, 50,000 square feet.	66,400 00	4,000 00	70,400 00
Union Park street, corner Albany street, pumping station, containing 4,167 square feet of land.	6,300 00	70,000 00	76,300 00
<b>HYDE PARK.</b>			
Milton avenue, pumping station.			
<b>BACK BAY FENS.</b>			
Gatehouse.		12,000 00	12,000 00
<b>MOON ISLAND AND SQUANTUM.</b>			
Land, buildings and reservoirs. Upland in Squantum, 19.5 acres; upland on Moon Island, 37.65 acres; flats about Moon Island and Squantum, 131 acres.			

\* 8,000 feet of this lot formerly used by Lighting Service.

## Real Property in Charge of the Water Division.— (Water Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
EAST BOSTON.				
Eagle Hill reservoir, with a capacity of 5,600,000 gallons. Area of property, 220,875 square feet.	\$0 30	\$66,300 00	\$ 400 00	\$56,700 00
High service tank, Orient Heights, capacity 122,000 gallons. Area of property, 11,394 square feet.	10	1,100 00	5,000 00	6,100 00
CHARLESTOWN.				
Medford street, corner Tufts street, containing 13,050 square feet. Upon this lot are a workshop and stable.	50	6,500 00	4,000 00	10,500 00
BRIGHTON.				
Western avenue, lot of land, containing 92,408 square feet. Upon this lot is an office building, workshop and stable. Also used by the Sewer Service.	.....	9,200 00	5,500 00	14,700 00
WEST ROXBURY.				
Williams street, Jamaica Plain, Nos. 110-112, land and buildings used as district headquarters, rented from Thomas Minton for \$600 per year.	14	1,800 00	7,000 00	8,800 00
Washington street and Metropolitan avenue, lot of land. Area of property, 12,895 square feet....				
DORCHESTER.				
Gibson street, in rear of lot occupied by Street Cleaning Service, land and buildings, 3,840 square feet.	.....	1,000 00	1,500 00	2,500 00
ROXBURY.				
Heath and Lawn streets, strip of land containing 5,707 square feet (pipe route) .....	25	1,425 00	.....	1,425 00

## SOUTH END.

Albany street, No. 710, containing 98,100 square feet. Upon this lot are a machine shop, stable, wharf and pipe yard.

## HYDE PARK.

Fairmount reservoir, with a capacity of 1,500,000 gallons \* .....

Fairmount standpipe, with a capacity of 500,000 gallons. Area of property, 114,314 feet. .... }

Water street, pumping station and lot of land. Area of property, 884,758 feet. .... } 04

Winthrop street, No. 48. Upon this lot are a building, two sheds and a stable. Leased from Henry S. Buntton, trustee for Robert Bleakie, for \$100 per year. .... } 02½

Sprague street, bordering Sprague pond, lot of land containing 16,128 square feet. .... } 500 00

## WINTHROP.

Strip of land at Point Shirley containing 7,725 square feet. .... } 01

## DEDHAM.

Paradise lane, containing 12.5 acres. Upon this lot is a pumping station. .... } 7,000 00

\* 206,020 square feet in Boston, balance in Milton.

Albany street, No. 710, containing 98,100 square feet. Upon this lot are a machine shop, stable, wharf and pipe yard.	.....	91,000 00	117,000 00	208,000 00
<b>HYDE PARK.</b>				
Fairmount reservoir, with a capacity of 1,500,000 gallons *	.....			
Fairmount standpipe, with a capacity of 500,000 gallons. Area of property, 114,314 feet. .... }	04	5,800 00	15,000 00	20,800 00
Water street, pumping station and lot of land. Area of property, 884,758 feet. .... }	02½	22,100 00	4,000 00	26,100 00
Winthrop street, No. 48. Upon this lot are a building, two sheds and a stable. Leased from Henry S. Buntton, trustee for Robert Bleakie, for \$100 per year. .... }		.....	.....	700 00
Sprague street, bordering Sprague pond, lot of land containing 16,128 square feet. .... }		500 00	.....	500 00
<b>WINTHROP.</b>				
Strip of land at Point Shirley containing 7,725 square feet. .... }	01	77 25	.....	77 25
<b>DEDHAM.</b>				
Paradise lane, containing 12.5 acres. Upon this lot is a pumping station. .... }		7,000 00	2,000 00	9,000 00

## EMPLOYEES.

The following tables show the number of requisitions made on the Civil Service Commission for men; the number appointed, reinstated, died, resigned, discharged and retired; also the grade and number of employees in the department:

Requisitions made on the Civil Service Commission . . . . .	26
Requisitions canceled . . . . .	3
Number of men called . . . . .	154
Number of men certified . . . . .	315
Number of men appointed . . . . .	168
Provisional appointments made permanent . . . . .	1
Promotions allowed . . . . .	11
Reinstatements allowed . . . . .	*29
Number of men discharged . . . . .	2
Number of men resigned . . . . .	67
Number of men died . . . . .	58
Number of Civil War veterans retired . . . . .	5
Number of laborers retired . . . . .	21
Number of transfers to other departments . . . . .	13
Number of transfers from other departments . . . . .	7
Number of Civil War retired veterans died . . . . .	14
Number of retired laborers died . . . . .	43

The records of the department show that there are now 3,095 persons eligible for employment in the several divisions and of that number 2,993 were upon the January, 1921, pay rolls.

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\*Twenty-six of these men were on the eligible list February 1, 1920.

## Grade and Number of Employees.

TITLE.	SERVICES.									Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	
Commissioner.....	1									1
Division engineers.....		1	1				1		1	4
Engineers in charge.....		1	1						2	4
Chief Clerk.....	1									1
Clerks.....	40	12	5	2	1	1	2	1	31	95
Messenger.....									1	1
Assistant engineers (civil).....	1	12	18				9		4	44
Draughtsmen.....		2	13				6		2	23
Instrumentmen.....		8	27				4		7	46
Rodmen.....		13	18				2		1	34
Inspectors.....		40	46	44	36		3	1	38	208
Foremen.....		11	4	8	10				13	46
Subforemen.....		29	3		3		3		1	39
Investigator.....			1							1
Addressograph printers.....									2	2
Blacksmiths and assistants.....		7	1	19					3	30
Blueprinters.....	3									3
Boys.....	2	1								3
Chauffeurs.....	1	4	6	3	4		5		11	34
Carpenters and assistants.....		22	3	3		4	12		5	49
Chief inspectors.....		1							1	2
Claim agent.....	1									1
Cement testers and assistants.....	3									3
Coal passers.....			8							8
Cashiers.....		1					1			2
Constable and inspector.....		1		1						2
Drawtenders and assistants.....							134			134
Deckhands.....						26				26
Driver.....		1								1
Engineer (gasolene).....		1								1
<i>Carried forward.....</i>	53	168	155	80	54	32	181	2	123	848

## Grade and Number of Employees.— Continued.

TITLE.	SERVICES.									
	Central Office.	Paving	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i> .....	53	168	155	80	54	32	181	2	123	848
Engineers (steam).....		12	6			11			1	30
Electricians.....			1			1	1			3
Firemen.....		9	12			35			2	58
Gate-men.....			4			15				19
General foremen.....		1	1		1	1			2	6
Harnessmakers and assistants.....				7						7
Horseshoers.....				7						7
Inspector, castings.....									1	1
Janitors (scrub).....						1	1		2	4
Janitresses.....						7				7
Joiners.....						3				3
Laborers and helpers.....		313	79		160	12	2		180	746
Lamp-lighter.....						1				1
Machinists and assistants.....			4			2	1		22	29
Meter testers.....									8	8
Meter readers.....									25	25
Masons (stone and brick).....			12						1	13
Medical inspectors.....		1		1	1					3
Oilers.....			18			9				27
Pipe fitter.....						1				1
Pavers and assistants.....		85	1						2	88
Plumbers and assistants.....				1					25	26
Painters.....		2	1	9		3	3			18
Captains.....						12				12
Quartermasters.....						12				12
Repairers.....									49	49
Roofer.....						1				1
Rammers.....		16								16
Rigger.....						1				1
Sealers.....									2	2
Sewer flushers.....			13							13
<i>Carried forward</i> .....	53	607	307	105	216	160	189	2	445	2,084

## Grade and Number of Employees.— Concluded.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i> .....	53	607	307	105	216	160	189	2	445	2,084
Supervisors.....		1			1		2		1	5
Stenographers.....	1	2	1					1		5
Stonecutters.....		16	2							18
Superintendents.....			1						2	3
Stockkeepers.....				1		1			2	4
Stablemen.....		27	4	30	30		1		5	97
Taukman.....						1				1
Teamsters.....		55	8	455	218		3		18	757
Telephone operators.....									1	1
Tollmen.....						12				12
Toolman.....		1								1
Veterinarian.....				1						1
Chief veterinarian.....		1								1
Watchmen.....		11	18	12	3		4		12	60
Weighers.....		1		3						4
Wharfingers.....		1		4						5
Wharfmen.....				3						3
Wheelwrights and assistants.....				6						6
Yardmen.....		7	4	7	4				5	27
Totals.....	54	730	345	627	472	174	199	3	491	3,095

**Comparative Table Showing the Number of Employees Actually Employed February 1, 1920, and February 1, 1921.**

	Central Office.	Bridge.	Ferry.	Lighting.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.	Water.	Total.
February 1, 1920. ....	45	200	174	4	722	525	359	460	483	2,972
February 1, 1921. ....	43	196	179	3	707	597	330	460	478	2,993

*Total Eligible Force.*

February 1, 1920. ....	56	204	175	4	746	556	368	478	496	3,083
February 1, 1921. ....	54	199	174	3	730	627	345	472	491	3,095

*Table of Employees Showing Appointments, Transfers, Resignations, Retirements, Deaths, Etc., During the Year.*

Died.	Retired Laborers.	Retired Veterans.	Transferred to Other Departments.	Transferred to Other Services.	Resigned.	Discharged.	February 1, 1920.	SERVICES. 1920-21.	January 31, 1921.	Transferred from Other Services.	Transferred from Other Departments.	Renstated.	Appointed.
1			1	2			56	Central Office. ....	*54		1		1
3		2		1	3		204	Bridge. ....	199	2			2
4		1	1	6	3		175	Ferry. ....	174	7	1		6
				2			4	Lighting. ....	3		1		
20	11		1	5	14		746	Paving. ....	730	14			21
4	2		2	29	22	1	556	Sanitary. ....	627	17	1		113
10	2		5	18	3		478	Street Cleaning. ....	472	16	2	3	11
8	1	1	3	7	10	1	368	Sewer. ....	345	7	1		
8	5	1		2	12		496	Water. ....	491	9			14
58	21	5	13	72	67	2	3,083	Totals. ....	3,095	72	7	3	168

\*Includes eight Central Office employees who are paid on Water Service pay roll.

Respectfully submitted,

T. F. SULLIVAN,  
*Commissioner of Public Works.*



PART II.

APPENDICES.

## APPENDIX A.

## CENTRAL OFFICE.

Appropriation . . . . .	\$90,650 58
Transfers . . . . .	723 40
	<hr/>
	\$91,373 98
	<hr/>

Expenditures from February 1, 1920, to January 31, 1921 . . . . .	\$91,373 98
	<hr/>

*Expenditures.*

Salary, commissioner . . . . .	\$9,000 00	
Salaries of clerks, stenographers, etc. . . . .	71,621 76	
Automobile expense:		
Wages of chauffeur . . . . .	\$1,380 00	
Hudson phaeton and winter top, . . . . .	1,975 00	
Gasolene . . . . .	459 73	
Storage . . . . .	124 00	
Repairs . . . . .	134 84	
Tires and tubes, new and repairs, . . . . .	414 02	
Supplies . . . . .	153 94	
Oil, grease etc. . . . .	18 12	
Registration . . . . .	12 00	
	<hr/>	4,671 65
Printing . . . . .		2,502 68
Stationery . . . . .		216 42
Postage . . . . .		181 19
Telephone tolls . . . . .		11 40
Travel expenses, car fares, etc. . . . .		399 78
Dalton adding machine . . . . .		220 50
Inspection and repairs to typewriters . . . . .		84 00
Books, papers, office supplies, etc. . . . .		207 80
Premium on surety bond . . . . .		6 00
Expert service investigating contract for the disposal of refuse; also preparing contract specifications . . . . .		2,250 80
		<hr/>
		\$91,373 98
		<hr/>

## APPENDIX B.

REPORT OF THE DIVISION ENGINEER OF THE  
BRIDGE AND FERRY DIVISION.

BOSTON, February 1, 1921.

MR. THOMAS F. SULLIVAN,

*Commissioner of Public Works:*

DEAR SIR,— I respectfully submit the following report of the income, expenditures and operation of the Bridge and Ferry Division for the year ending January 31, 1921. The expenditures of the division in the regular maintenance appropriations of the department were \$1,011,754.44. Under a number of special appropriations \$590,303.03 was expended, making the total expenditure for the year \$1,602,057.52.

## BRIDGE SERVICE.

*Apportionment of Cost of Bridges between Boston and Chelsea.*— The city of Chelsea paid \$136,165.18 as its share toward construction costs on Chelsea Bridge over the north channel of the Mystic river, Chelsea Bridge over the south channel of the Mystic river, and Meridian Street Bridge, but has to date paid nothing toward maintenance.

*Prison Point Bridge.*— The Boston & Maine Railroad finished repairs to the corroded steelwork.

*Winthrop Bridge.*— The town of Winthrop paid in June, 1920, \$21,823.03 in final settlement with the City of Boston, toward the cost of the bridge.

## RECOMMENDATIONS FOR 1921.

*Bridge Service.*

*Allston Bridge, over the Boston & Albany Railroad.*— This bridge should be rebuilt.

*Beacon Street Bridge, over the Boston & Albany Railroad.*— This bridge should be rebuilt.

*Hyde Park Avenue Bridge, over Mother Brook.*— This bridge should be rebuilt.

Extensive repairs should be made to numerous other bridges over the lines of the Boston & Albany Railroad and New York, New Haven & Hartford Railroad where the steelwork is very badly corroded.

BRIDGE SERVICE CONSTRUCTION WORK,  
1920-21.*Allston Bridge.*

This bridge over the Boston & Albany Railroad is a four truss span, 144 feet long, carrying three roadways, two sidewalks and gas and water mains. The floor system had been so badly deteriorated that after a thorough inspection it was decided to close the bridge to elevated car travel and limit the load on vehicles. One roadway was then closed to all travel and such repairs made as would enable street traffic to be continued until such time as a new structure could be planned. The water and gas pipes were temporarily relocated. The floor system of the middle roadway was entirely removed. Work on this bridge was done by the Transit Department and the Bridge Service day labor force.

*Ashland Street Bridge.*

A contract for rebuilding Ashland Street Bridge was awarded to the Boston Bridge Works, Inc., and approved by the Mayor July 6, 1920. Owing to delays in the delivery of the steel the work has not been started in the field at the date of this report, but practically all the shop work has been done. The work will be completed in the spring.

*Beacon Street Bridge.*

Repairs were made on the southerly roadway of this bridge during August and September. These consisted of strengthening the floor beams by adding new flange plates, replacing stringer seats and cutting out old and re-driving several hundred new rivets. New yellow pine stringers were put in and the deck and sheathing entirely renewed. The steelwork was done by the Transit Department day labor force and the timber work by the Bridge Service crew.

*Berkeley Street Bridge.*

This bridge which is a through girder span carrying two roadways, two sidewalks and water and gas pipes,

has been thoroughly overhauled and repaired. The girders were battened and strengthened where badly deteriorated. New floor beams were put in under the water and gas pipes. The Edison conduit under the sidewalk was removed and new floor beams put in. Flange plates on the outside girders were cut off and replaced by new ones. Many rivets which were badly corroded were cut out and redriven. The bottom part of the bridge was thoroughly painted. The yellow pine stringers were nearly all replaced by new ones and the deck and sheathing were relaid with new lumber. The steelwork was done by the Transit Department force and woodwork by the Bridge Service force, all day labor.

*Brookline Street Bridge (over Charles River at Cottage Farm).*

A contract with W. S. Rendle was approved on September 10, 1920, for placing some piles in order to make the bridge safe temporarily. The work was completed November 10, 1920.

On this same bridge a contract was awarded to John B. Dolan, approved November 5, 1920, for repairs to the flooring of the bridge. Some yellow pine under plank was placed over the tracks of the Boston & Albany Railroad in place of the rotted plank and a wood block flooring was laid on top. Patching was done on various other parts of the bridge in order to make the bridge safe for travel. This work was completed on December 16, 1920.

*Chelsea Bridge South.*

The flooring of this bridge has been rebuilt under a contract with Lawler Brothers, approved May 24, 1920. Work was begun May 27 and was completed July 23, 1920, and was so conducted that only one half the roadway was closed to travel except at short lengths of the approaches at the draw span, where all car and vehicle traffic was taken off just after midnight until noon of three Sundays. The entire wearing surface of the roadways and sidewalks of both approaches to the draw and the lower planking of the roadway were removed; new 4-inch yellow pine lower plank and new 4-inch spruce upper plank laid on roadways and new 2-inch spruce plank laid on the sidewalk.

New yellow pine stringers were laid under the car tracks; two 8-inch by 12-inch sticks under each rail, and such of the roadway stringers as were found to be poor were replaced with 6-inch by 12-inch timbers.

Some sidewalk stringers and wheelguard timbers were replaced with new yellow pine timber. The flooring of both ends of the draw span was rebuilt with new materials of the same dimensions as the old. The total amount paid under this contract was \$29,511.25.

#### *Clarendon Street Bridge.*

The Massachusetts Public Utilities Commission, after a public hearing, required a clear headroom of 17 feet over the tracks of the New York, New Haven & Hartford Railroad and the Boston & Albany Railroad.

A contract was made with Coleman Brothers, approved on February 9, 1920, for the removal of the structure over the New York, New Haven & Hartford Railroad, consisting of brick arches and concrete slabs resting on steel I-beams and girders which formed originally the foundation for the Back Bay Hotel, the hotel itself being removed by the railroad company prior to the contract. This contract was completed on May 4, 1920.

A contract was awarded to the John McCourt Company, approved May 24, 1920, for building a bridge over the two railroads and constructing a reinforced concrete abutment on the northerly end of the bridge. The bridge utilized the existing piers and abutments which formed the foundations of the Back Bay Hotel.

Owing to delay in the delivery of the steelwork the bridge has not been completed, but at the date of the report the northerly abutment has been constructed, the beams for the spans over the New York, New Haven & Hartford Railroad put in place and encased in concrete and the steelwork of the plate girder span over the Boston & Albany Railroad put in place. The work will be completed in the spring.

#### *Columbus Avenue Pipe Bridge.*

The pipe bridge at Columbus avenue, over the Boston & Albany Railroad, has during the year been repaired, cleaned and painted. The bottom flange plates on the girders were replaced by new ones and bracing and struts were replaced where found to be badly dete-

riorated. The steelwork was done by the Transit Department force, and the cleaning and painting by Maurice M. Devine, under contract, for the sum of \$775.

*Commonwealth Avenue Bridge (over the Boston & Albany Railroad at Cottage Farm).*

As stated in the report of last year a contract was made with W. Klingberg & Son, Inc., of New York, approved September 9, 1919, for covering the exposed surfaces of the arches and steelwork with gunite. Work was begun November 5, 1919; was suspended on account of weather conditions on January 6, 1920, and was resumed on June 2, 1920. Work was completed on July 27, 1920, the total amount paid under the contract being \$10,252.61.

All the surfaces of the I-beams, girders and arches exposed to fumes from the locomotives were thoroughly cleaned by the sand-blast method of all rust, unsound paint and other foreign materials.

Portions of the floor and outer surfaces of the girders on street lines were covered with a coating of gunite about  $\frac{3}{4}$  inch thick, composed of one part Portland cement and three parts sand. Before the gunite was applied, reinforcing rods were placed on the bottom flanges of the I-beams and Clinton electrically welded wire cloth 3-inch by 3-inch mesh placed on the outside faces of the outer girders. The inside surfaces of the girders, not covered with gunite, and the railings on these girders were cleaned, patch painted with red lead and then painted with two coats of graphite paint.

*Dorchester Avenue Bridge (Over Fort Point Channel).*

A contract was made with W. H. Ellis & Son Company, approved May 12, 1920, for repairing the face of the channelway.

New 4-inch yellow pine vertical planking and new 8-inch by 12-inch yellow pine wheel timbers were put on where necessary. The amount paid under the contract was \$1,561.61 and the work was completed June 7, 1920.

*Warren Bridge.*

During the year the upstream half of Warren Bridge draw has been strengthened by the Boston Elevated Railway Company to carry 50-ton electric cars. The



strengthening consisted of renewing and adding new flange plates to the floor beams and girder plates and stiffeners under the track stringers and placing larger stringers under the rails.

The deck plank which was in good condition was replaced. A new wearing surface was placed by the day labor force of the Bridge Service.

On this same bridge a contract with V. Grande was made, approved March 25, 1920, for repairing and strengthening. This contract provided for driving additional piles under the street car tracks to enable the bridge to carry 50-ton cars, and replacing and driving additional piles where old ones were found to be badly decayed.

An entire new layer of 6-inch yellow pine under plank was provided and on top of this was placed granite block pavement consisting of blocks recut on the work, laid with an asphalt mastic filler.

Work was about three quarters completed when weather conditions compelled the shutting down of the job.

The cost of the work required to strengthen the bridge for 50-ton cars is being paid back to the city by the Boston Elevated Railway Company.

Granolithic sidewalks are being built in place of the existing tar concrete walks.

The entire contract will probably be completed in the spring.

### *Navigation Lights.*

Navigation lights were installed on Warren Bridge, and on the bridges at Congress street, Summer street and Dorchester avenue, over Fort Point channel, under two contracts, one with Smith & Lovett Company, approved June 4, 1920, for furnishing and installing mechanical equipment, and one with Stearns, Perry & Smith, approved June 25, 1920, for furnishing and installing electrical equipment.

The contract with Smith & Lovett Company was completed on September 1, 1920, and the one with Stearns, Perry & Smith Company was completed on December 15, 1920.

On Congress Street and Warren Bridges where the draws are operated by steam, oil lanterns were installed. Those on Warren Bridge, which is a retractile draw, are 15 feet above the roadway and are changed from

red to green through the movement of the draw by means of a mechanical device.

On Congress Street Bridge the change in lights is accomplished by the turning of the draw, which is a swing draw.

On Summer Street and Dorchester Avenue Bridges, where both have retractile draws and are electrically operated, electric lights were installed, those on the pier being connected by submarine cables and the draws being connected by means of cables and trolley wires. The lights which are 15 feet above the deck are changed by means of a double circuit and twin lights.

*West Fourth Street Bridge.*

The New York, New Haven & Hartford Railroad employed the Boston Bridge Works, Inc., to repair the corroded steelwork on the bridge over its tracks.

The Bridge Service day labor force in conjunction with this work laid a new wooden flooring on the southerly half of the bridge.

## FERRY SERVICE.

*Ferryboat "John H. Sullivan."*

A contract with the Boston Shipbuilding Company for rebuilding the superstructure of the boat and making four driveways for vehicular traffic, instead of two, was approved September 2, 1919.

Owing to a strike of ship carpenters work was considerably delayed and was finally completed April 10, 1920. This work increased the teaming capacity of the boat about 70 per cent.

A contract with the Boston Marine Works for repairing the machinery of the boat was approved on March 18, 1920. The engines were taken down, brasses planed, water courses cleaned, bearings, cylinders and valves cleaned.

The thrust bearings were rebabbitted and stern bearings rewooded. The dynamos, pumps and one of the steering engines were overhauled and the hull painted. The contract was completed May 25, 1920.

While this contract was being carried on the boat was placed on the railway of the Atlantic Works, where it was found that repairs were necessary to tail shaft, sleeves, rudder and pintle bearings and that defective rivets in the hull should be replaced. This work was done by the Atlantic Works.

On October 16, 1920, a propeller was lost from the Boston end of the boat and considerable damage was done to the tail shaft, rudder, etc. The boat was placed on the railway at the yard of the Richard T. Green Company, where repairs were made, including the putting in of a new tail shaft.

*Ferryboat "Noddle Island."*

The ferryboat "Noddle Island" was put out of commission on account of the rotten condition of the hull. A contract was approved October 5, 1920, with the Richard T. Green Company, for the reconstruction of the boat. Under this contract a new hull, longer and wider than the existing hull, is being built and a new superstructure is being built. The boat will have four

driveways instead of two, thereby greatly increasing the teaming capacity. The old engines are being overhauled and are to be placed in the new hull. Boilers are to be retubed. Work should be completed in the spring of 1921.

*Ferryboat "Governor Russell."*

A contract with the Simpson Patent Dry Dock Company was approved April 28, 1920, for repairing the main engines and auxiliaries.

Under this contract the boilers were retubed, cylinders of the engines rebored and main bearings babbitted. The stern bearings were rewooded and the shaft lined up.

A contract with the Simpson Patent Dry Dock Company was made for furnishing a new smoke stack and repairing the water tanks.

*Ferryboat "General Sumner."*

A contract with the Simpson Patent Dry Dock Company was approved for repairing the main engines and steering engines of the "General Sumner." The most important part of this work was in raising the crank shaft which was down considerable and pounding the bottom of the boat.

*Ferryboat "D. D. Kelly."*

A contract was approved with the Boston Shipbuilding Company, under which extensive repairs were made to the paddle wheels, including work on the rims, arms and paddles.

A contract was approved on August 25, 1920, with the Winnisimmet Ship Yard, Inc., for the construction of one new steel ferryboat and another contract was approved August 14, 1920, with the Groton Iron Works, for one new steel ferryboat.

These contracts are the first steps that have been taken for some years toward rehabilitating the Ferry Service and replacing old antiquated boats.

These boats will have four driveways and this will give them 75 per cent increase in teaming capacity over the existing type of boat of two driveways.

Up to the date of this report the keels of the boats have been laid, framing done, and considerable plate and deck work finished. It is expected that the vessels will be completed in the summer.

With the completion of these vessels and the "Noddle Island" there will be in service five boats with four driveways, whereas up to 1918 there was not a single boat so constructed.

A contract was made with W. H. Ellis & Son Company for repairing the piers at the South Ferry, Boston side, approved April 28, 1920. Under this contract some new piles and girders were furnished and placed. Planking was refastened and where necessary new planking was placed. The amount paid under this contract was \$2,157.02.

A contract with W. S. Rendle for rebuilding part of the south pier, North Ferry, East Boston, was approved April 12, 1920. A stretch of pier about 160 feet long was entirely rebuilt.

A contract with W. S. Rendle was approved on May 22, 1920, for rebuilding the roadways at the south drop, North Ferry, East Boston; the south drop, South Ferry, East Boston; the north drop, South Ferry, Boston, and for repairing the foundation of the south drop, South Ferry, East Boston. A large number of new floor beams were placed, new 4-inch planks fastened on top of these timbers and slab pavements laid for wearing surface. The drop foundation was raised and moved into its proper position after building up the foundation and making repairs to the rocker irons and timbers.

A contract was made with W. H. Ellis & Son Company for repairs to the south drop, North Ferry, East Boston, which when stripped was found to be in a dangerous condition. Trusses were repaired and the bulkhead at the outer end of the drop rebuilt and the roadway supplementary drop repaired. The amount paid under this contract was \$9,616.19.

The Simpson Patent Dry Dock Company repaired, under a contract, nine bronze propeller blades.

Respectfully submitted,

JOHN E. CARTY,  
*Division Engineer.*

## BRIDGE SERVICE.

## FINANCIAL STATEMENT 1920-21.

*Expenditures from Maintenance Appropriation.*

Boston bridges . . . . .	\$410,216 53	
*Boston and Cambridge bridges . . . . .	26,783 42	
		<u>\$436,999 95</u>

*Total Expenditures.*

From maintenance appropriations	\$436,999 95	
From special appropriations . . . . .	346,834 45	
From Strandway and Old Harbor appropriations . . . . .	250 00	
		<u>\$784,084 40</u>

## EXPENDITURES ON BOSTON BRIDGES.

## (1.) Administration:

Salaries:		
Division engineer . . . . .	\$3,750 00	
Supervisors . . . . .	4,886 36	
Engineers and draughtsmen . . . . .	22,944 11	
Clerk . . . . .	1,760 48	
Inspectors . . . . .	2,375 12	
Medical inspector . . . . .	166 67	
Pensions:		
Veterans . . . . .	\$2,429 79	
Laborers . . . . .	360 00	
		<u>2,789 79</u>
Holiday time . . . . .	1,311 40	
Vacations . . . . .	2,211 40	
Pay allowed to injured employees . . . . .	837 71	
Printing, postage and stationery . . . . .	1,216 97	
Travel . . . . .	197 59	
Telephones . . . . .	5 30	
Engineers supplies and instruments . . . . .	101 13	
Typewriter inspection . . . . .	18 00	
Office supplies . . . . .	194 65	
		<u>\$44,766 68</u>

## (2.) Yard and Stockroom:

Yard:		
Employees: Clerk, janitor and watchmen . . . . .	\$3,999 80	
Travel . . . . .	261 83	
Tools . . . . .	551 03	
Tool repairs . . . . .	446 62	
Telephone . . . . .	143 99	
Medical service . . . . .	55 00	
Furnishings . . . . .	13 80	
Printing . . . . .	61 65	
		<u>\$5,533 72</u>
<i>Carried forward</i> . . . . .	\$5,533 72	

\* For detail of expenditures see Appendix F.

## PUBLIC WORKS DEPARTMENT.

97

<i>Brought forward</i> . . . . .	\$5,533 72	
(2) Yard and Stockroom:		
Yard:		
Supplies . . . . .	7 98	
Expressing . . . . .	90	
	<hr/>	\$5,542 60
Stockroom:		
Stock (lumber, nails and supplies for bridges). . . . .	\$7,669 49	
Less decrease in stock for the year . . . . .	1,964 32	
	<hr/>	5,705 17
		<hr/>
		\$11,247 77
(3.) Automobiles:		
Division engineer:		
Wages of chauffeur . . . . .	\$1,026 00	
Storage . . . . .	180 00	
Repairs . . . . .	1,073 93	
Supplies . . . . .	38 59	
Gasolene . . . . .	419 74	
New tires and tubes . . . . .	296 77	
Repairs to tires and tubes . . . . .	48 05	
Registration . . . . .	10 00	
	<hr/>	\$3,093 08
Supervisor of Bridges:		
Wages of chauffeur . . . . .	\$1,327 00	
Storage . . . . .	181 50	
Repairs . . . . .	239 72	
Supplies . . . . .	20 22	
Gasolene . . . . .	289 55	
New tires and tubes . . . . .	271 03	
Repairs to tires and tubes . . . . .	33 25	
Registration . . . . .	10 00	
New Ford touring car . . . . .	475 66	
	<hr/>	2,847 93
Auto Truck No. 1:		
New tires and tubes . . . . .	\$272 56	
Storage . . . . .	40 00	
Repairs . . . . .	27 68	
Supplies . . . . .	51 46	
Gasolene . . . . .	374 07	
Registration . . . . .	4 00	
	<hr/>	769 77
Auto Truck No. 2:		
Wages of chauffeur . . . . .	\$1,323 00	
New tires and tubes . . . . .	79 48	
Repairs to tires and tubes . . . . .	18 75	
Repairs . . . . .	250 15	
Gasolene . . . . .	270 77	
Supplies . . . . .	29 79	
Registration . . . . .	2 00	
	<hr/>	1,973 94
Auto Truck No. 3:		
New tires and tubes . . . . .	\$0 54	
Repairing tires and tubes . . . . .	5 00	
Repairs . . . . .	272 53	
Gasolene . . . . .	261 95	
Supplies . . . . .	18 78	
Registration . . . . .	2 00	
	<hr/>	560 80
		<hr/>
		\$9,245 52

## (4.) BRIDGES.

*Expenditures on Tide Water Bridges.*

BRIDGES.	Draw- tenders' Salaries.	Mechanics' Wages.	Material.	Repair Bills.	Supplies and Miscella- neous Expenses.	Total.
Broadway.....	\$13,707 19	\$694 98	\$175 76	\$42 21	\$197 21	\$14,817 35
Charlestown.....	18,708 02	1,614 83	2,847 27	1,491 50	854 20	25,515 82
Chelsea North.....	15,748 46	1,040 36	342 96	4,205 45	741 01	22,078 24
Chelsea South.....	13,786 05	2,671 12	1,052 50	30,026 17	515 26	48,051 10
Chelsea Street.....	14,190 85	1,786 46	1,041 20	1,028 79	429 21	18,476 51
Congress Street.....	14,244 32	1,997 01	1,060 86	865 96	1,102 68	19,270 83
Dorchester Avenue.....	13,699 51	1,458 10	780 98	4,459 35	366 34	20,764 28
Dover Street.....	13,786 08	829 95	741 99	536 57	203 74	16,098 33
L Street.....	13,686 38	411 80	215 88	329 81	284 45	14,928 32
Malden.....	14,204 61	333 51	39 30	88 71	645 84	15,311 97
Meridian.....	14,285 40	1,868 78	404 16	615 90	302 50	17,476 74
Northern Avenue.....	15,738 24	3,001 04	3,248 75	1,825 12	6,336 99	30,150 14
Summer Street.....	14,165 63	1,230 62	1,059 91	2,572 74	475 16	19,504 06
Warren.....	14,022 11	1,808 27	800 57	1,444 16	1,297 54	19,372 65
Western Avenue.....	398 84	197 00	182 58	.....	.....	778 42
Totals.....	\$204,371 69	\$20,943 83	\$13,994 67	\$49,532 44	\$13,752 13	\$302,594 76



*Repairs on Inland Bridges.*

BRIDGE.	Labor and Materials.
Albany street (over Boston & Albany Railroad) . . . . .	\$592 54
Allston street . . . . .	2,685 12
Ashland street . . . . .	162 49
Ashmont street . . . . .	18 41
Austin street . . . . .	395 98
Arlington street . . . . .	34 12
Baker street . . . . .	817 18
Byron street . . . . .	307 42
Boylston street . . . . .	916 36
Broadway (over Boston & Albany Railroad) . . . . .	143 62
Broadway (over New York, New Haven & Hartford Railroad) . . . . .	14 80
Beacon street (over Boston & Albany Railroad) . . . . .	3,341 99
Bennington street . . . . .	3,205 21
Berkeley street (over Boston & Albany Railroad) . . . . .	3,941 43
Boston street (Old Colony Division) . . . . .	268 82
Brookline avenue . . . . .	189 59
Babson street . . . . .	1,418 93
Beacon street (over outlet) to Charles river . . . . .	44 62
Blue Hill avenue . . . . .	280 37
B Street (footbridge) . . . . .	103 90
Columbus avenue . . . . .	1,404 91
Curtis street . . . . .	325 69
Commercial Point . . . . .	19 75
Central avenue . . . . .	77 48
Dartmouth street . . . . .	400 96
Dorchester avenue (over Old Colony Railroad) . . . . .	126 30
Dana avenue . . . . .	20 00
Everett street . . . . .	71 00
Fairmount avenue . . . . .	4,066 95
Glenwood Avenue East . . . . .	37 50
Hyde Park avenue (over Stony brook) . . . . .	10 00
Harvard street . . . . .	159 03
Ipswich street . . . . .	79 42
Jones avenue (footbridge) . . . . .	37 50
Massachusetts avenue (Providence Division) . . . . .	759 87
<i>Carried forward</i> . . . . .	\$26,479 26

*Repairs on Inland Bridges.— Concluded.*

BRIDGE.	Labor and Materials
<i>Brought forward</i> .....	\$26,479 26
Mystic avenue (Boston & Maine).....	23 88
Milton street (Hyde Park).....	20 00
Maverick street.....	118 73
Milton Lower Mills.....	49 25
Norfolk street.....	60 62
New Allen street.....	106 31
Oakland street.....	63 50
Porter street.....	3 37
Prescott street.....	3 02
Redfield street.....	413 87
Reservoir road.....	10 00
Summer street (over A street).....	220 83
Summer street (over B street).....	209 79
Summer street (over C street).....	192 40
Southampton street.....	407 55
Shawmut avenue.....	37 75
West Fourth street.....	9,921 60
Winthrop.....	30 00
West Newton street.....	520 27
Lehigh street storehouse.....	1 13
Webster street (footbridge).....	48 03
Miscellaneous: Labor, removing snow and sweeping bridges.....	3,420 64
Total.....	\$42,361 80

## SUMMARY OF EXPENDITURES.

Administration . . . . .	\$44,766 68
Yard and stockroom . . . . .	11,247 77
Automobiles and trucks . . . . .	9,245 52
Tide water bridges . . . . .	302,594 76
Inland bridges . . . . .	42,361 80
Total . . . . .	<u>\$410,216 53</u>

## BRIDGES, REPAIRS.

## WARREN BRIDGE.

Engineering . . . . .	\$4,701 64
Inspection . . . . .	932 04
<i>Carried forward</i> . . . . .	<u>\$5,633 68</u>

<i>Brought forward</i> . . . . .	\$5,633 68	
Supplies . . . . .	31 69	
General repairs . . . . .	457 65	
Travel . . . . .	61 79	
Advertising . . . . .	15 84	
Vincenzo Grande . . . . .	183,323 49	
Lumber . . . . .	583 50	
	<hr/>	\$190,245 64

## BROADWAY BRIDGE.

Photographs . . . . .	\$8 00
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## BROOKLINE STREET BRIDGE.

Engineering . . . . .	\$126 57	
J. B. Dolan, repairing flooring . . . . .	2,955 52	
W. S. Rendle, repairing bridge . . . . .	939 75	
	<hr/>	\$4,021 84

## SEA WALL, ROXBURY CANAL.

Salaries of engineers . . . . .	\$4,023 61	
Advertising . . . . .	33 05	
Inspection . . . . .	159 46	
Supplies . . . . .	987 52	
Travel expense . . . . .	116 95	
Repairing fence, Massachusetts avenue . . . . .	88 20	
W. S. Rendle . . . . .	139,545 12	
Lawler Brothers . . . . .	1,822 50	
Testing piles . . . . .	316 20	
	<hr/>	\$147,092 61

## MALDEN BRIDGE.

Hugh Nawn Contracting Company, reconstructing bridge . . . . .	\$2,385 36
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## BROOKLINE AVENUE BRIDGE.

Michael Meehan Contracting Company, changing fence grades . . . . .	\$204 99	
Supplies . . . . .	8 00	
	<hr/>	\$212 99

## ASHLAND STREET BRIDGE.

Salaries of engineers . . . . .	\$1,223 72	
Printing . . . . .	113 90	
Advertising . . . . .	25 00	
Inspection of material . . . . .	39 85	
Engineers' supplies . . . . .	29 04	
	<hr/>	\$1,432 51

## STRANDWAY AND OLD HARBOR IMPROVEMENT.

James L. Pierce artificial stone sidewalks . . . . .	\$250 00
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EXPENDITURES ON GRANITE AVENUE BRIDGE BY A COUNTY OF SUFFOLK,  
1920-21.

Salaries of drawtenders . . . . .	\$2,277 86	
Fuel . . . . .	21 63	
Light . . . . .	16 44	
Printing . . . . .	13 36	
Lumber . . . . .	15 84	
Motor repairs . . . . .	51 80	
	<hr/>	\$2,396 93

Appropriation . . . . .	\$2,814 86
Expenditures . . . . .	2,396 93
Balance returned to County Treasury January 31, 1921 . .	<u>\$417 93</u>

## BRIDGE SERVICE.

Amount paid into the City Treasury during 1920-21:

Labor and material furnished . . . . .	\$63 16
Rents . . . . .	330 00
Chelsea Bridge North . . . . .	8,358 63
Meridian Street Bridge . . . . .	9,681 55
	<u>\$18,433 34</u>

**SUMMARY.**  
**Expended from Special Appropriations in Charge of Bridge Service.**

	Balances from 1919.	Total Credits, Including Balance Carried Over.	Expended During Year 1920.	Balance Unexpended January 31, 1921.
Bridges, repairs.....		\$223,029 27		\$28,753 79
Warren Bridge.....	\$155,255 22		\$190,245 64	
Broadway Bridge.....			8 00	
Brookline Street Bridge.....			4,021 84	
<b>Totals.....</b>	<b>\$155,255 22</b>	<b>\$223,029 27</b>	<b>\$194,275 48</b>	<b>\$28,753 79</b>
Asland Street Bridge.....		65,000 00	1,432 51	63,567 49
Brookline Avenue Bridge.....	926 90	926 90	212 99	713 91
Chelsea Bridge South.....	16,303 04	16,303 04	1,435 50	14,867 54
Malden Bridge.....		2,385 36	2,385 36	
Seawall, Roxbury Canal.....	6,585 30	256,585 30	147,002 61	109,493 69
Strandway and Old Harbor Improvement.....	250 00	250 00	250 00	
<b>Totals.....</b>	<b>\$179,319 56</b>	<b>\$504,479 87</b>	<b>\$347,084 45</b>	<b>\$217,395 42</b>

## LIST OF BOSTON BRIDGES.

## I.—BRIDGES WHOLLY MAINTAINED BY BOSTON.

[In the list those marked with an asterisk (\*) are over navigable waters, and are each provided with a draw.]

*In Charge of Bridge and Ferry Division.*

- Allston, over Boston & Albany Railroad at Cambridge street, Brighton.
- Arlington street, over Boston & Albany Railroad.
- Ashland street, over New York, New Haven & Hartford Railroad, Providence Division, West Roxbury.
- B street (footbridge), over Neponset river, Hyde Park.
- Baker street, at Brook Farm, West Roxbury.
- Beacon street, over outlet from Back Bay Fens.
- Beacon street, over Boston & Albany Railroad.
- Bennington street, over Boston, Revere Beach & Lynn Railroad.
- Berkeley street, over Boston & Albany Railroad.
- Blakemore street, over New York, New Haven & Hartford Railroad, Providence Division.
- Boylston street, over Boston & Albany Railroad.
- Braddock park, formerly Berwick park (footbridge), over New York, New Haven & Hartford Railroad (Providence Division).
- Broadway, over Boston & Albany Railroad.
- \* Broadway, over Fort Point channel.
- Brookline avenue, over Boston & Albany Railroad.
- Brooks street, Brighton.
- Byron street, over Boston, Revere Beach & Lynn Railroad.
- Charlesgate, in Fens, over Ipswich street.
- \* Charlestown, from Boston to Charlestown.
- \* Chelsea South (temporary), over south channel, Mystic river.
- \* Chelsea street, from East Boston to Chelsea.
- Columbus avenue, over Boston & Albany Railroad.
- Commercial Point, or Tenean, Dorchester.
- \* Congress street, Fort Point channel.
- Dana avenue, over Neponset river, Hyde Park.
- Dartmouth street, over Boston & Albany Railroad.
- \* Dorchester avenue (formerly Federal street), over Fort Point channel.
- \* Dover street, over Fort Point channel.
- Fairmount avenue, over Neponset river, Hyde Park.
- Florence street, over Stony brook, West Roxbury.
- Gainsborough street (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.
- Glenwood Avenue East (footbridge), over Neponset river, Hyde Park.

- Glenwood Avenue West, over Mother brook, Hyde Park.  
Gove street (footbridge), over Boston & Albany Railroad, East Boston.  
Huntington avenue, over Boston & Albany Railroad.  
Huntington avenue, over Stony brook, Hyde Park.  
Hyde Park avenue, over Mother brook (at woolen mill), Hyde Park.  
Hyde Park avenue, over Stony brook, West Roxbury.  
Hyde Park avenue, over Stony brook (near Clarendon Hill Station), Hyde Park.  
Ipswich street, in Fens, over waterway.  
Irvington street (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.  
Jones avenue (footbridge), over New York, New Haven & Hartford Railroad, Midland Division.  
\* Malden, from Charlestown to Everett.  
Massachusetts avenue, over Boston & Albany Railroad.  
Massachusetts avenue, over New York, New Haven & Hartford Railroad, Providence Division.  
\* Meridian street, from East Boston to Chelsea.  
Metropolitan avenue (near Clarendon Hills station), Hyde Park.  
Neptune road, over Boston, Revere Beach & Lynn Railroad.  
Newburn street, over Stony brook, Hyde Park.  
\* Northern avenue, over Fort Point channel.  
Shawmut avenue, over Boston & Albany Railroad and New York, New Haven & Hartford Railroad, Providence Division.  
Southampton street, over South Bay sluice.  
Summer street, over A street.  
Summer street, over B street.  
Summer street, over C street.  
\* Summer street, over Fort Point channel.  
\* Summer street, over Reserved channel, South Boston.  
Tollgate way (footbridge), over Providence Division, from Washington street to Hyde Park avenue, Forest Hills.  
\* Warren, from Boston to Charlestown.  
West Newton street, over New York, New Haven & Hartford Railroad, Providence Division.  
West River street, over Mother brook, Hyde Park.  
West Rutland square (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.  
Wordsworth street (footbridge), over Boston, Revere Beach & Lynn Railroad, East Boston.

*In Charge of Bridge and Ferry Division and Park and  
Recreation Department.*

- Columbia road, over New York, New Haven & Hartford Railroad, Old Colony Division.  
Columbia road, over Shoreham street.

*In Charge of Park and Recreation Department.*

Agassiz road, in Fens.

Audubon road, in Riverway, over Boston & Albany Railroad.

Berners street (footbridge), over Bridle path in Riverway.

Boylston street, in Fens, over waterway.

Bridle path, in Riverway, over Muddy river.

\* Castle Island (footbridge), in Marine Park, South Boston, to Castle Island.

Charlesgate, in Fens, over Boston & Albany Railroad.

Circuit drive, over Scarboro pond, in Franklin Park.

Commonwealth avenue, in Fens, over waterway.

Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.

Ellicott Arch, in Franklin Park.

Fens, in Fens.

Forest Hills entrance, in Franklin Park.

Leverett pond (footbridge), in Olmsted Park.

Norfolk Street Playground (footbridge), over Midland Division, New York, New Haven & Hartford Railroad.

Public Garden (footbridge).

Scarboro pond (footbridge), in Franklin Park.

Wood Island (footbridge), in Wood Island Park.

## II.—BRIDGES OF WHICH BOSTON MAINTAINS THE PART WITHIN ITS LIMITS.

*In Charge of Bridge and Ferry Division.*

Central avenue, from Dorchester to Milton.

\* Chelsea North, from Charlestown to Chelsea.

Milton, from Dorchester to Milton.

Paul's Bridge, over Neponset river, Hyde Park.

Spring street, from West Roxbury to Dedham.

\* Western avenue, from Brighton to Watertown.

Winthrop, from Breed's Island to Winthrop.

*In Charge of Park and Recreation Department.*

Bellevue street, in the Riverway, over Muddy river.

Berners street (footbridge), over Muddy river.

Brookline avenue, in the Riverway, over Muddy river.

Huntington avenue, in the Riverway, over Muddy river.

Longwood avenue, in the Riverway, over Muddy river.

## III.—BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST OF MAINTANCE.

*In Charge of Bridge and Ferry Division.*

Albany street, over Boston & Albany Railroad (over freight tracks).

Ashmont street and Dorchester avenue, over New York, New Haven & Hartford Railroad, Old Colony Division.



Belgrade avenue, over New York, New Haven & Hartford Railroad, Providence Division.  
Harvard street, over New York, New Haven & Hartford Railroad, Midland Division.  
Morton street, over New York, New Haven & Hartford Railroad, Midland Division.  
Norfolk street, over New York, New Haven & Hartford Railroad, Midland Division, near Dorchester station.  
Pleasant street, over the subway.  
Walworth street, over New York, New Haven & Hartford Railroad, Providence Division.

*In Charge of Commissioners for Boston and Cambridge Bridges.*

Anderson Bridge, from Brighton to Cambridge.  
Brookline street, from Brighton to Cambridge.  
Cambridge, from Boston to Cambridge.  
\* Cambridge street, from Brighton to Cambridge.  
\* Harvard, from Boston to Cambridge.  
\* Prison Point, from Charlestown to Cambridge.  
\* Western avenue, from Brighton to Cambridge.

*In Charge of Commissioners for Granite Avenue Bridge.*

\* Granite avenue, from Dorchester to Milton.

IV.—BRIDGES OF WHICH BOSTON MAINTAINS THE WHOLE OR A PART OF THE WEARING SURFACE.

*In Charge of the Bridge and Ferry Division.*

Austin street, over Boston & Maine Railroad, Charlestown.  
Babson street, over New York, New Haven & Hartford Railroad, Midland Division, near Blue Hill Avenue Station.  
Bennington street, over Boston & Albany Railroad.  
Blue Hill avenue, over New York, New Haven & Hartford Railroad, Midland Division.  
Boston street, over New York, New Haven & Hartford Railroad, Old Colony Division.  
Brookline street, Brighton, to Cambridge, portion over Boston & Albany Railroad.  
Cambridge street, Charlestown, over Boston & Maine Railroad.  
Chelsea, over Boston & Maine Railroad.  
Curtis street, East Boston, over Boston & Albany Railroad.  
Dana avenue, over New York, New Haven & Hartford Railroad, Midland Division, Hyde Park.  
Dorchester avenue, over New York, New Haven & Hartford Railroad, Old Colony Division.  
Everett street, over Boston & Albany Railroad, Brighton.  
Fairmount avenue, over New York, New Haven & Hartford Railroad, Midland Division, and Station street, Hyde Park.

Glenwood Avenue, West, over passageway connecting land of the New York, New Haven & Hartford Railroad, Hyde Park.

Hyde Park avenue, over proposed electric connection between Midland and Providence Division, New York, New Haven & Hartford Railroad, Hyde Park.

Maverick street, East Boston, over Boston & Albany Railroad.

Milton street, Hyde Park, over New York, New Haven & Hartford Railroad.

Mystic avenue, over Boston & Maine and Boston & Albany Railroads.

New Allen street, Hyde Park, over New York, New Haven & Hartford Railroad.

Oakland street, over New York, New Haven & Hartford Railroad, Midland Division, Mattapan.

Perkins street (footbridge), Over Boston & Maine Railroad.

Porter street, over Boston & Albany Railroad.

Prescott street, over Boston & Albany Railroad.

Redfield street, at Neponset, over New York, New Haven & Hartford Railroad, Old Colony Division.

Reservoir road, Brighton, over Boston & Albany Railroad, Newton Branch.

Saratoga street, over Boston & Albany Railroad.

Saratoga street, over Boston, Revere Beach & Lynn Railroad, East Boston.

Southampton street, over New York, New Haven & Hartford Railroad, Old Colony Division.

Sprague street, over New York, New Haven & Hartford Railroad, Midland Division, and branch of Providence Division, Hyde Park.

Summer street, over New York, New Haven & Hartford Railroad, Midland Division.

Sumner street, East Boston, over Boston & Albany Railroad.

Webster street (footbridge), East Boston, over Boston & Albany Railroad.

West Fourth street, over New York, New Haven & Hartford Railroad, Old Colony Division.

#### V.—BRIDGES MAINTAINED BY METROPOLITAN DISTRICT COMMISSION, PARK DIVISION.

\* Charles River Dam.

Mattapan, over Neponset river

\* Neponset, from Dorchester to Quincy.

North Beacon street, from Brighton to Watertown.

#### VI.—BRIDGES WHOLLY MAINTAINED BY RAILROAD CORPORATIONS.

##### *1st.—Boston & Albany.*

Albany street (over passenger tracks).

Harrison avenue.

Market street, Brighton.  
Tremont street.  
Washington street.

2d.—*Boston & Maine and Boston & Albany Railroads.*  
Main street.

3d.—*Boston & Maine Railroad, Eastern Division.*  
Wauwatosa avenue, East Boston.

4th.—*Boston, Revere Beach & Lynn Railroad.*  
Everett street.

5th.—*New York, New Haven & Hartford Railroad, Midland Division.*

Athens street.  
Bolton street.  
Dorchester avenue.  
East River street, at River Street Station, Hyde Park.  
Gold street.  
Silver street.  
Washington street, Dorchester.  
West Broadway.  
West Second street.  
West Third street.  
West Fourth street.  
West Fifth street.  
West Sixth street.

6th.—*New York, New Haven & Hartford Railroad, Old Colony Division.*

Adams street.  
Cedar Grove Cemetery.  
Medway street.  
Savin Hill avenue.

7th.—*New York, New Haven & Hartford Railroad, Providence Division.*

Albany street.  
Arlington square.  
Baker street, West Roxbury.  
Bellevue street, West Roxbury.  
Berkeley street.  
Broadway, South Boston. L  
Canterbury street, West Roxbury.  
Centre and Mt. Vernon streets, West Roxbury.  
Columbus avenue.  
Dartmouth street.  
Gardner street, West Roxbury.  
Harrison avenue.  
Park street, West Roxbury.

Washington street.

West street, Hyde Park.

West River street, Hyde Park.

# VII.—BRIDGES MAINTAINED BY THE UNITED STATES GOVERNMENT.

\*Victory Bridge (over Neponset river), from Dorchester to Quincy.

## RECAPITULATION OF BRIDGES.

I. Number wholly maintained by Boston:	
In charge of Bridge and Ferry Division . . .	63
In charge of Bridge and Ferry Division and Park and Recreation Department . . .	2
In charge of Park and Recreation Department . . . . .	18
	— 83
II. Number of which Boston maintains the part within its limits:	
In charge of Bridge and Ferry Division . . .	7
In charge of Park and Recreation Department . . . . .	5
	— 12
III. Number of which Boston pays a part of the cost of maintenance:	
In charge of Bridge and Ferry Division . . .	8
In charge of Commissioners for Boston and Cambridge Bridges . . . . .	7
In charge of Commissioners for Granite Avenue Bridge . . . . .	1
	— 16
IV. Number of which Boston maintains the whole or a part of the wearing surface. . . . .	
	33
V. Number maintained by Metropolitan District Commission . . . . .	
	4
VI. Number maintained by railroad corporations:	
1. Boston & Albany Railroad . . . . .	5
2. Boston & Maine and Boston & Albany Railroads . . . . .	1
3. Boston & Maine Railroad, Eastern Division . . . . .	1
4. Boston, Revere Beach & Lynn Railroad, Midland Division. . . . .	1
5. New York, New Haven & Hartford Railroad, Old Colony Division . . .	13
6. New York, New Haven & Hartford Railroad, Providence Division . . .	4
7. New York, New Haven & Hartford Railroad, Providence Division . . .	16
	— 41

## VII. Number maintained by the United States Government

1

Total number

190

Table Showing the Widths of Channelways for Vessels in all Bridges Over Navigable Water in the City of Boston in January, 1920.

NAME OF BRIDGE.	Location.	Number of Channelways.	Width.
* Anderson.....	Brighton to Cambridge.....	1	45 feet 0 inches.
Boston Elevated Railway.....	Boston to East Cambridge.....	1	45 " 0 "
Boston Elevated Railway.....	Charlestown to Everett.....	1	75 " 0 "
Boston & Maine Railroad, Eastern Division.	Boston to Charlestown.....	1	39 " 8 "
Boston & Maine Railroad, Eastern Division.	Over Miller's river.....	1	35 " 0 "
Boston & Maine Railroad, Fitchburg Division.	Boston to Charlestown.....	1	36 " 0 "
Boston & Maine Railroad, Fitchburg Division (for teaming freight).	" ".....	1	36 " 7 "
Boston & Maine Railroad, (freight), Southern Division.	Boston to East Cambridge....	1	40 " 0 "
Boston & Maine Railroad (passenger), Southern Division.	" ".....	1	39 " 8 "
Boston & Maine Railroad, Western Division.	Boston to Charlestown.....	1	39 " 4 "
Boston & Maine Railroad, Western Division.	Over Miller's river.....	1	35 " 6 "
Broadway.....	Over Fort Point channel.....	1	50 " 0 "
† Brookline street.....	Brighton to Cambridge.....	1	40 " 0 "
* Cambridge.....	Boston to Cambridge.....	1	50 " 0 "
Cambridge street.....	Brighton to Cambridge.....	1	36 " 6 "
Charles River Dam (lock).....	Boston to East Cambridge.....	1	45 " 0 "
Charlestown (main channel).....	Boston to Charlestown.....	2	{ 50 " 0 "
Charlestown (north channel).....	" ".....		{ 49 " 9 "
Chelsea (north channel).....	Charlestown to Chelsea.....	2	125 " 0 "
Chelsea (south channel).....	" ".....	1	49 " 0 "
Chelsea street.....	East Boston to Chelsea.....	1	60 " 0 "
Congress street.....	Over Fort Point channel.....	1	50 " 0 "
Dorchester avenue.....	" ".....	1	41 " 3 "
Dover street.....	" ".....	1	40 " 6 "

\* Drawless channelway; clear headroom of 12 feet above basin level (about elevation 8.0).

† Drawless channelway; clear headroom of 28 feet above basin level.

Table Showing Widths of Channelways, etc.—*Concluded.*

NAME OF BRIDGE.	Location.	Number of Channelways.	Width.
Grand Junction Railroad.....	Brighton to Cambridge.....	1	39 feet 3 inches.
Grand Junction Railroad.....	East Boston to Chelsea.....	1	60 " 0 "
Granite avenue.....	Dorchester to Milton.....	1	50 " 0 "
Harvard (Boston side).....	Boston to Cambridge.....	2	{ 36 " 7 "
Harvard (Cambridge side).....	" ".....		{ 37 " 0 "
Malden.....	Charlestown to Everett.....	1	75 " 0 "
Meridian street.....	East Boston to Chelsea.....	1	100 " 0 "
Neponset (temporary).....	Dorchester to Quincy.....	1	38 " 5 "
New York, New Haven & Hartford Railroad.	Over Fort Point channel.....	1	41 " 8 "
New York, New Haven & Hartford Railroad, Plymouth Division	Dorchester to Quincy.....	1	51 " 0 "
* North Beacon street.....	Brighton to Watertown.....	1	45 " 0 "
Northern avenue.....	Over Fort Point channel.....	2	75 " 3 "
Prison Point.....	Charlestown to Cambridge.....	1	37 " 4 "
Summer street.....	Over Fort Point channel.....	1	50 " 0 "
Summer street.....	Over Reserved channel, South Boston.	1	39 " 3 "
Victory.....	Dorchester to Quincy.....	1	50 " 0 "
Warren.....	Boston to Charlestown.....	1	36 " 0 "
Western avenue.....	Brighton to Cambridge.....	1	36 " 0 "
Western avenue.....	Brighton to Watertown.....	1	36 " 0 "

\* Drawless channelway; clear headroom of 12 feet above basin level (about elevation 8.0).

# Bridge Openings.

Bridge.	STEAMERS.			SAILING VESSELS.			TUGS.			BARGES.			ALL OTHERS.			TOTAL NUMBER OF VESSELS.			Total Number of Carries.	Total Number of Openings.
	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.		
	Day.	Night.		Day.	Night.		Day.	Night.		Day.	Night.		Day.	Night.		Day.	Night.			
Broadway.....	29	26	55	118	2	120	2,418	66	2,484	620	18	638	979	37	1,016	4,161	149	1,313	920	1,465
Charlestown.....	4	.....	4	74	3	77	1,642	223	1,865	475	79	554	680	434	1,114	2,875	739	3,614	830	1,574
Chelsea North.....	968	61	1,029	56	.....	56	10,144	504	10,648	1,309	27	1,336	3,805	319	4,124	16,282	911	17,193	2,761	6,829
Chelsea South.....	10	.....	10	81	3	84	3,267	168	3,435	143	1	144	1,866	136	2,002	5,367	308	5,675	1,394	2,612
Chelsea Street.....	46	22	68	.....	.....	.....	2,333	974	3,307	131	34	165	1,741	568	2,301	4,251	1,598	5,848	1,260	3,054
Congress Street.....	211	46	257	132	3	135	4,177	187	4,364	613	35	648	1,709	83	1,792	6,842	354	7,196	980	3,563
Dorchester Avenue.....	19	3	22	120	2	122	2,301	77	2,378	606	36	632	1,136	78	1,214	4,182	196	4,378	909	2,260
Dover Street.....	19	3	22	121	1	122	2,292	71	2,363	623	20	643	1,019	75	1,094	4,071	170	4,241	891	1,781
* L Street.....	5	.....	5	70	.....	70	1,883	25	1,908	165	3	168	1,408	60	1,468	3,531	88	3,619	602	2,493
Malden.....	.....	.....	.....	18	.....	18	1,550	149	1,699	140	7	147	1,024	202	1,226	2,732	358	3,090	594	1,693
Meridian Street.....	591	83	674	45	.....	45	8,487	1,589	10,076	752	172	924	3,705	625	4,330	13,580	2,469	16,049	2,048	9,181
Northern Avenue.....	913	289	1,202	134	2	136	6,509	292	6,801	676	20	696	3,121	175	3,296	11,353	778	12,131	1,941	5,320
Summer Street.....	179	6	185	123	2	125	4,116	170	4,286	620	40	660	1,789	135	1,924	6,827	353	7,180	1,166	3,597
Warren.....	121	93	214	70	3	73	1,575	197	1,772	544	73	617	546	342	888	2,856	708	3,564	793	2,238
Totals.....	3,115	632	3,747	1,162	21	1,183	32,694	4,692	37,386	7,417	565	7,972	24,528	3,269	27,797	88,916	9,179	98,095	18,098	47,600

\* Now Summer street over Reserved channel.

## ELEVATIONS AND DATUM PLANES REFERRED TO BOSTON CITY BASE.

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Feet.	
* 0.00	Boston city base. This base is used by the towns of Brookline and Watertown and the cities of Chelsea, Everett, Malden, Newton and Waltham.
—4.98	Cambridge city base.
+0.64	Somerville city base.
0.00	Metropolitan Park Commission base.
+0.64	State Department of Public Works, Division of Waterways and Public Lands.
0.00	Metropolitan Water Board base.
—100.00	Metropolitan Sewerage Board base.
—100.00	Boston Transit Commission base.
—100.00	Charles River Commission base.
15.45	Old bench mark on coping of old dry dock at Charlestown Navy Yard.
15.11	New bench mark on coping of old dry dock at Charlestown Navy Yard, northwest end over crowfoot.
5.00	Piles to be cut off for building.
12.00	Minimum cellar bottom elevation when not waterproofed.
9.82	South Boston base. Formerly in use, now abandoned.
0.00	Mean low water about 1830.†
+0.34	Mean low water, 1867.†
+0.79	Mean low water, 1902.†
+0.58	Navy Yard base, 1902.†
10.63	Mean high water, 1902.†
5.71	Mean sea level, 1902.†
9.84	Mean rise and fall of tide, 1902.†

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\* Definition of Boston city base: "Boston city base is a datum plane 15 feet above the average height of the sill of the Charlestown dry dock." (Page 552, report of Committee on Charles River Dam, 1903.)

† John R. Freeman, civil engineer, in report to Committee on Charles River Dam, 1903, pp. 562, 569, 570.



## HIGHEST RECORDED TIDES.

Feet.

15.62 April 16, 1851, average of seven observations, North Market street and vicinity, leveled on in 1854 by Charles Harris, Surveying Division n. b. 22, p. 54 (15.10 above mean low water, United States Coast Survey Chart of Boston Harbor, 1857).

15.64 December 26, 1909, average of twenty-nine observations, on waterfront, Nut Island, to Deer Island, elevations determined in most cases by John H. Edmonds, before January 1, 1910, from points put in for that purpose, 1902 to 1905.

15.50 December 26, 1909, actual elevation at North Ferry, Boston proper, as observed on staff gauge, at high water.

From comparison of contemporary diary and newspaper accounts the only tide of this class prior to 1851, found by John H. Edmonds, was that of February 24, 1722-23, which was in all probability about 16.00.

The following tidal records may be of interest:

*High Tides.*

Plane of Reference, Boston City Base.

FEET.	Date.	When Taken.	By Whom.
6.00	Feb. 24, 1722-23,	By comparison.....	J. H. Edmonds.
1.62	April 16, 1851....	Average of 7 observations.....	Charles Harris.
115.74	April 16, 1851....	Navy Yard, staff gauge.....	Isaac Williams.
145.15	Jan. 23, 1898....	Charlestown Bridge and East Boston Ferries.	
14.94	Nov. 27, 1898....	Average of 15 observations.	
13.72	Nov. 8, 1900....	Malden Bridge.....	F. P. Spalding.
14.19	Nov. 25, 1901....	Average of 10 observations.	
13.60	Dec. 14, 1902....	Average of 11 observations.	
14.83	Jan. 25, 1905....	Average of 34 observations.	
14.70	Jan. 25, 1905....	Inner harbor, 10 observations.	
14.70	Jan. 25, 1905....	North Ferry, Boston proper.....	J. H. Edmonds.
11.90	Dec. 26, 1909....	North Ferry, Boston proper (p. m.).....	J. H. Edmonds.
13.50	Dec. 26, 1913....	North Ferry, Boston proper.....	F. P. Spalding.
13.90	Nov. 20, 1914....	Malden Bridge.....	H. H. McNerlin.
14.30	Jan. 13, 1915....	North Ferry, Boston proper.....	F. P. Spalding.
14.62	Jan. 13, 1915....	Granite Avenue Bridge.....	G. A. Clough.
14.40	Nov. 7, 1919....	North Ferry, East Boston side.....	F. P. Spalding.

*Low Tides.*

5.60	Nov. 27, 1898....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-3.50	Feb. 1, 1900....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-2.94	Feb. 3, 1900....	South Boston station, Edison Electric.....	D. A. Harrington.
-3.00	Feb. 4, 1904....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-3.00	Mar. 23, 1905....	Deer Island, metropolitan sewer station....	Self-recording gauge.

## FERRY SERVICE.

The following steam ferryboats are in commission:

Name.	When Built.	Type.	Length.	Gross Tonnage.
D. D. Kelly.....	1879	Side Wheel	160 ft. 3 in.	550
Hugh O'Brien.....	1883	"	175 " 3 "	645
General Hancock.....	1887	"	160 " 3 "	577
Governor Russell.....	1898	Propeller	164 " 3 "	713
Noddle Island.....	1899	"	164 " 3 "	710
General Sumner.....	1900	"	164 " 3 "	703
John H. Sullivan.....	1912	"	172 " 3 "	826

### FINANCIAL STATEMENT FOR THE YEAR ENDING JANUARY 31, 1921.

#### 1. Receipts.

Total cash receipts during the year . . . . .	\$92,151 50
Cash in hands of tollmen at beginning of year . . . . .	200 00
	<hr/>
	\$92,351 50
	<hr/>
Cash paid over to City Collector . . . . .	\$92,151 50
Cash in hands of tollmen January 31, 1921 . . . . .	200 00
	<hr/>
	\$92,351 50
	<hr/>

#### 2. Appropriations and Expenditures.

Received from annual appropriation for Ferry Service . . . . .	\$492,607 43
Received by transfer from Bridge Service . . . . .	34,875 00
Received by transfer from Paving Service . . . . .	23,026 97
Received by transfer from fuel supplies, etc . . . . .	25,000 00
Unexpended balance from special appropriation for ferryboats, repairs, etc., February 1, 1921 . . . . .	27,904 00
Received from special appropriations:	
East Boston Ferry, improvements, etc. . . . .	*1,000,000 00
Ferryboat "Noddle Island" . . . . .	160,000 00
	<hr/>
Total appropriations and balance carried over . . . . .	\$1,763,413 40
Total expenditures . . . . .	815,576 19
	<hr/>
	\$947,837 21
	<hr/>
Unexpended balance of special appropriations January 31, 1921 . . . . .	\$947,082 35
Transferred to City Treasury . . . . .	754 86
	<hr/>
	\$947,837 21
	<hr/>

## 3. Result of Operations for the Year.

Receipts for the year (net income).			\$92,151 50
Ordinary expenses (maintenance appropriation)	\$574,754 54		
Interest paid on ferry debt	15,211 67		
Depreciation on ferryboats	10,415 29		
Decrease in value of machinery and tools	247 54		
		† \$600,629 04	
Less increase of stock of supplies	\$1,933 94		
Less increase in stock of fuel	13,968 40		
		15,902 34	
Net outgo for the year			†584,726 70
Net loss for the year			† \$492,575 20

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\* Includes \$500,000 authorized but not issued.

† Does not include expenditures for special appropriations.

## 4. Balance Sheet.

End of Fiscal Year January 31, 1921.

ASSETS.		LIABILITIES.	
AVAILABLE ASSETS:		CURRENT LIABILITIES:	
Cash in hands of tollmen at close of year.....	\$200 00	None.	
Inventory of supplies, viz.:			
Fuel.....	\$27,984 00		
Supplies for maintenance.....	7,868 94		
Rents receivable.....			
	35,852 94		
	146 20		
Total available assets.....	\$36,199 14		
CONTINGENT ASSETS:		CONTINGENT LIABILITIES:	
City Treasury.....	4 947,082 35	Appropriations account.....	4 \$947,082 35
FIXED ASSETS:		FIXED LIABILITIES:	
Real estate, land and buildings <sup>1</sup> .....	2 610,100 00	Capital of the city invested in the ferries, viz.:	
Ferryboats <sup>3</sup> .....	379,450 27	Total expenditures of all kinds for sixty-	
Machinery, tools, etc.....	2,227 90	three years, including interest on ferry	
		debt.....	\$15,407,814 96
Total tangible assets.....	\$1,975,059 66	Less total receipts.....	7,668,451 55
Deficiency or loss by operation and maintenance			
of the ferries for sixty-three years to date.....	6,711,386 70		
	\$8,686,445 76		7,739,363 41
			\$8,686,445 76

<sup>1</sup> Original purchase..... \$276,375 00  
 New buildings, drops, slips, cost to date.. 607,523 64  
 Land, Lincoln's Wharf, cost, 1887..... 5,562 52  
 Land, Battery Wharf, cost, 1893..... 10,000 00  
 \$899,461 16

<sup>2</sup> Assessors' figures.  
<sup>3</sup> Total cost to date, per ferry books... \$959,347 91  
 Less boats sold, depreciation or de- 579,897 64  
 stroyed..... \$379,450 27

<sup>4</sup> Includes \$5,000 authorized, but not issued.

## Comparative Balance Sheets at the Close of each Year for Five Years,

	January 31, 1917.	January 31, 1918.	January 31, 1919.	January 31, 1920.	January 31, 1921.
<i>Assets.</i>					
Cash, balance on hand.....					
Cash, tollmen's capital.....	\$200 00	\$200 00	\$200 00	\$200 00	\$200 00
Rents receivable.....	33 40	100 52	113 54	137 87	146 20
Fuel and supplies in stock.....	12,283 04	7,238 24	14,436 34	19,950 60	35,852 94
City Treasurer (balance of appropriation).....	1,775 00		27,280 67	27,904 00	947,082 35
Ferryboats (less depreciation).....	208,995 39	196,455 67	184,668 33	173,588 23	379,450 27
Machinery and tools.....	3,080 00	2,772 00	2,605 72	2,475 44	2,227 90
Real estate, land and buildings (assessors' valuation).....	610,100 00	610,100 00	610,100 00	610,100 00	610,100 00
Total tangible assets.....	\$836,466 83	\$816,866 43	\$839,404 60	\$834,356 14	\$1,975,059 66
Cost of avenues, etc., East Boston (previous to 1870) <sup>1</sup> .....	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets (loss).....	4,805,067 18	5,094,074 27	5,477,858 89	5,878,439 23	6,395,570 42
Totals.....	\$5,957,349 69	\$6,226,756 38	\$6,633,079 17	\$7,028,631 05	\$8,686,445 76
<i>Liabilities.</i>					
Capital invested by City of Boston to date.....	\$5,955,574 69	\$6,226,756 38	\$6,605,798 50	\$7,000,727 05	\$7,739,363 41
Appropriations account (credit balances).....	1,775 00		27,280 67	27,904 00	947,082 35
Total liabilities.....	\$5,957,349 69	\$6,226,756 38	\$6,633,079 17	\$7,028,631 05	\$8,686,445 76

## Detail of Capital Invested by the City of Boston.

Total expenditures to date per ferry books.....	\$12,900,154 62	\$13,331,024 31	\$13,800,322 33	\$14,292,449 75	\$15,113,454 44
Interest of debt for the year (per City Auditor).....	14,987 91	7,995 00	6,063 00	5,428 50	15,211 67
Interest previous years, etc. (net debits, per City Auditor).....	279,148 85	279,148 85	279,148 85	279,148 85	279,148 85
Total expenditures.....	\$13,194,291 38	\$13,618,168 16	\$14,085,534 18	\$14,577,027 10	\$15,407,814 96
Deduct total receipts paid to City Collector.....	7,238,716 69	7,391,411 78	7,479,735 68	7,576,300 05	7,668,451 55
Excess expenditures, capital.....	\$5,955,574 69	\$6,226,756 38	\$6,605,798 50	\$7,000,727 05	\$7,739,363 41

<sup>1</sup> Included in deficiency of assets in Table 4.

## Comparison of Receipts, Appropriations and Expenditures for Five Years.

	1916-17.	1917 18.	1918 19.	1919 20.	1920-21.
<b>RECEIPTS.</b>					
From foot passengers (tollmen).....	\$44,048 14	\$39,690 86	\$37,548 30	\$42,285 00	\$37,926 79
" foot passes (office sales).....	566 70	513 80	509 30	402 80	423 80
" extra passengers on teams (gatenmen).....	1,721 33	1,710 71	1,514 59	1,586 24	1,546 34
" team tickets (office sales).....	2,661 50	2,977 50	3,625 50	3,107 50	2,519 50
" strip team tickets (tollmen).....	23,142 00	23,001 00	19,525 00	20,266 50	17,151 00
" cash fares for teams (gatenmen).....	21,202 55	23,304 45	24,223 99	27,813 19	30,518 14
" free ferries July 4.....	1 00	1 00	1 00	1 00	1 00
Total from rates.....	\$93,343 22	\$91,199 32	\$86,947 68	\$95,462 23	\$90,086 57
From rents.....	564 00	514 03	533 83	539 67	553 27
" old material sold.....	594 78	84 35	290 50	.....	280 78
" other sources.....	623 14	618 83	551 89	562 47	1,230 88
Total ordinary receipts.....	\$95,125 14	\$92,416 53	\$88,323 90	\$96,504 37	\$92,151 50
<b>EXPENDITURES (ORDINARY).</b>					
<b>Office:</b>					
Division engineer's salary (part) *	\$1,250 00	\$1,250 00	\$1,250 00	\$1,250 00	\$1,250 00
General foreman and cashier †.....	4,341 44	4,253 88	4,288 44	4,370 91	4,700 38
Clerks *.....	765 00	904 23	663 34	931 10	1,070 85
Retired veterans' pensions.....	4,739 45	4,645 58	5,373 07	5,612 79	5,257 47
Retired employees' pensions.....	2,246 15	3,754 16	3,201 36	2,997 27	2,345 64
Medical inspector (part).....	83 00	83 33	83 33	83 34	83 33
Stationery.....	117 59	132 72	138 12	158 94	198 99
Printing.....	1,258 39	1,263 78	1,662 75	1,150 33	1,653 24
Telephonics.....	299 54	212 35	205 75	235 38	279 32
Advertising.....	34 60	56 50	36 50	50 90	60 15
Car fares.....	75 00	57 25	57 45	79 74	87 15
Postage.....	6 00	6 00	2 00	4 00	4 00
Premiums, surety companies.....	90 00	80 84	86 24	86 52	85 00
Total, office expense.....	\$15,306 16	\$16,700 62	\$17,048 35	\$17,011 22	\$17,075 52

Ferryboats and landings:					
Employees (wages).....	\$182,903 30	\$196,363 38	\$199,927 52	\$241,580 23	\$278,218 04
Fuel.....	54,890 04	90,250 62	103,113 31	86,839 87	130,594 17
Tanning, weighing coal, etc.....	3,195 97	3,830 57	3,826 51	4,140 88	3,937 52
Supplies.....	7,708 20	9,124 69	9,824 27	11,266 18	9,992 80
Oils.....	1,782 43	1,971 79	2,133 96	2,320 57	2,313 66
Gas.....	561 50	577 66	590 65	1,185 88	2,466 80
Electric light.....	3,847 14	3,560 16	3,261 80	3,401 15	3,127 83
Towing teams by electric motors.....	270 45	208 02	134 42	342 66	352 96
Repair of boats.....	29,468 14	21,643 48	32,652 84	40,362 22	82,796 80
Repairs of buildings, piers and drops.....	3,290 18	10,473 68	20,130 00	27,191 26	41,607 73
Furnishings.....	227 25	229 37	315 11	228 76	320 26
Other expenditures †.....	496 42	546 13	834 95	816 87	1,950 45
Total from regular annual appropriations.....	\$303,917 18	\$355,480 17	\$393,783 69	\$436,687 75	\$574,754 54
EXPENDITURES FROM SPECIAL APPROPRIATIONS.					
East Boston Ferry improvements, etc.....					156,600 71
Ferryboats, repairs, etc.....					24,544 32
Ferryboat, "Noddle Island".....					59,676 62
Ferry improvements.....	127 77		67,719 33	49,376 67	
Auxiliary lighting plant.....	225 00	123 05			
Total expenditures, regular and special.....	\$304,269 95	\$355,603 22	\$461,50 02	\$486,064 42	\$815,576 19
Balances in treasury unexpended.....	1,775 00		\$ 29,605 02	27,904 00	947,082 35
APPROPRIATIONS.					
Regular annual appropriations.....	\$298,115 75	\$342,348 31	\$388,619 50	\$424,248 94	* \$492,607 43
Transfers from other sources †.....		5,801 43	13,141 86	12,438 81	82,901 97
Ferry landings repairs.....		112 17			
East Boston Ferry improvements, etc.....					1,000,000 00
Ferryboats, repairs, etc.....			95,000 00	50,000 00	160,000 00
Ferryboat "Noddle Island".....					
Total.....	\$304,029 35	\$355,490 17	\$491,108 10	\$486,687 75	\$1,735,509 40

\* \$754.86 of this amount transferred to City Treasury.

† Included in employees (wages) after February 1, 1916, in office books.

‡ Includes repair of coal carts, analysis of coal, medical attendance, report of coal expert, photographs, expressage, experts' services, derrick hire.

§ Part of appropriation for Bridge and Ferry Division applied to "Ferry Service" and transfers from other appropriations.

|| \$2,324.41 of this amount transferred to City Treasury.

**Total Expenditures Upon Ferries Since 1858-59**

Expenditures for avenues, paving, interest, etc, previous to the purchase of the ferries by the city . . . . .	\$444,101 30
Purchase of ferries April, 1870 . . . . .	276,375 00
Expenditures for ferryboats since April, 1870 . . . . .	959,347 91
Expenditures for new buildings, piers drops, etc. . . . .	607,523 64
Expenditures for tools and fixtures (prior to 1910) . . . . .	14,752 46
Expenditures for land from Lincoln's Wharf in 1887. . . . .	5,562 52
Expenditures for land from Battery Wharf in 1893 . . . . .	10,000 00
<b>Total expenditures on capital account</b>	<b>\$2,317,662 83</b>
Expenditures for repairs of all kinds . . . . .	1,591,276 59
Expenditures for fuel . . . . .	2,123,716 37
Expenditures for salaries and wages . . . . .	7,238,676 57
Expenditures for all other purposes . . . . .	2,136,482 60
	<b><u>\$15,407,814 96</u></b>

**Total Receipts from Ferries, 1858-59.**

Receipts from rents, etc., previous to purchase of ferries . . . . .	\$29,588 56
Receipts from ferry tolls since purchase of ferries . . . . .	7,362,385 27
Receipts from rents since purchase of ferries . . . . .	68,432 69
Receipts from sale of ferryboats . . . . .	149,067 44
Receipts from all other sources, per ferry books. . . . .	28,442 74
Receipts from all other sources, additional, per City Auditor . . . . .	30,734 85
<b>Total receipts from all sources . . . . .</b>	<b>\$7,668,651 55</b>
Less amount with tollmen as capital . . . . .	200 00
<b>Total receipts, per auditor's figures . . . . .</b>	<b><u>\$7,668,451 55</u></b>

**REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATIONS  
(EXTRAORDINARY) OF THE FERRY SERVICE FOR THE YEAR  
ENDING JANUARY 31, 1921.**

Appropriation (regular) for the year ending January 31, 1921 . . . . .	\$492,607 43
Received by transfer from Bridge Service . . . . .	34,875 00
Received by transfer from the Paving Service . . . . .	23,026 97
Received by transfer from fuel supplies, etc. . . . .	25,000 00
	<b><u>\$575,509 40</u></b>



Amount of expenditures (regular) for the year . . . . .	\$574,754 54
Unexpended balance to City Treasury . . . . .	<u>\$754 86</u>

## SPECIAL APPROPRIATIONS.

*Ferryboats, Repairs, Etc.*

Balance February 1, 1920 . . . . .	\$27,904 00
Amount expended from February 1, 1920 . . . . .	24,544 32
Balance January 31, 1921. . . . .	<u>\$3,359 68</u>

*East Boston Ferry, Improvements, Etc.*

Authorized under chapter 315, Acts of 1920 to borrow \$1,000,000 outside of debt limit.

Loan authorized, June 19, 1920 . . . . .	*\$1,000,000 00
Amount expended from June 19, 1920, to January 31, 1921 . . . . .	156,600 71
Unexpended balance January 31, 1921 . . . . .	<u>\$843,399 29</u>

*Ferryboat "Noddle Island".*

Appropriation transferred September 22, 1920, from appropriation for New Ferryboat and Runways . . . . .	\$160,000 00
Amount expended from September 22, 1920 to January 31, 1921 . . . . .	59,676 62
Unexpended balance January 31, 1921 . . . . .	<u>\$100,323 38</u>

*New Ferryboat and Runways.*

Appropriation March 12, 1920 . . . . .	<u>\$400,000 00</u>
Transferred September 22, 1920, to Ferryboat "Noddle Island" . . . . .	\$160,000 00
Transferred to Long Island Fire Protection . . . . .	105,000 00
Transferred to Municipal Building, Ward 12 . . . . .	135,000 00
	<u>\$400,000 00</u>
Labor, engineering . . . . .	\$389 31
Printing specifications . . . . .	696 90
Travelling expenses, engineers . . . . .	443 95
Advertising . . . . .	49 20
Blue Prints . . . . .	31 35
Carried forward . . . . .	<u>\$1,610 71</u>

\* Authorized but not issued, \$500,000.

<i>Brought forward</i> . . . . .	\$1,610 71
Amount paid James Swan, consulting engineer . . . . .	250 00
Amount paid Fay, Spofford and Thorndike, for professional services for design and supervision of new ferryboats . . . . .	11,750 00
Amount paid to Winnisimmet Ship Yard, Inc., under contract (contract price \$335,000) for building steel ferryboat (work not completed) . . . . .	67,000 00
Amount paid to Groton Iron works, under contract (contract price \$379,950) for building steel ferryboat (work not completed) . . . . .	75,990 00
Total . . . . .	<u>\$156,600 71</u>

## FERRYBOATS, REPAIRS, ETC.

Labor, engineering . . . . .	\$283 14
Printing specifications . . . . .	100 55
Advertising . . . . .	11 20
Amount paid to Boston Shipbuilding Company, under contract for rebuilding superstructure of double screw ferryboat, John H. Sullivan: Contract price . . . . . \$39,850 00	
Extra work, under contract, replacing broken chafing irons, staving and covering boards on both ends of boat . . . . .	1,356 80
	<u>\$41,206 80</u>
Less amount paid in 1919 . . . . .	18,629 87
	<u>22,576 93</u>
Amount paid to Bertelsen & Petersen Engineering Company under contract for retubing condenser on ferryboat "John H. Sullivan" . . . . .	
Contract price . . . . .	\$1,850 00
Less amount paid in 1919 . . . . .	277 50
	<u>1,572 50</u>
Total . . . . .	<u>\$24,544 32</u>

## FERRY BOAT "NODDLE ISLAND"

Labor, engineering . . . . .	\$88 22
Amount paid to Richard T. Green Company, under contract (contract price \$152,400) for repairs and renewals to double screw ferryboat "Noddle Island" (work not completed) . . . . .	59,588 40
	<u>\$59,676 62</u>

## STATEMENT SHOWING RECEIPTS AT EACH FERRY.

*North Ferry.*

FROM TOLLMEN.	Foot Passengers.	From Tickets.	Totals.
Boston side.....	\$10,645 60	\$3,727 00	\$14,372 60
East Boston side.....	9,709 20	6 342 00	16,051 20
	\$20,354 80	\$10,069 00	\$30,423 80

From tollmen . . . . . \$30,423 80

From gatemen:

For 80,643 foot passengers at 1  
cent . . . . .

\$806 43

For cash fares for teams . . . . . 15,791 06

16,597 49

Total at North Ferry . . . . . \$47,021 29

*South Ferry.*

FROM TOLLMEN.	Foot Passengers.	From Tickets.	Totals.
Boston side.....	\$9,286 42	\$3,986 50	\$13,272 92
East Boston side.....	8,285 57	3,095 50	11,381 07
	\$17,571 99	\$7,082 00	\$24,653 99

From tollmen . . . . . \$24,653 99

From gatemen:

For 73,991 foot passengers at 1  
cent . . . . .

\$739 91

For cash fares for teams . . . . . 14,727 08

15,466 99

Total at South Ferry . . . . . \$40,120 98

North and South Ferries as above . . . . . \$87,142 27

Tickets paid for at ferry office . . . . . 2,943 30

Received in lieu of free ferries July 4, 1920 . . . . . 1 00

Total from rates . . . . . \$90,086 57

Rents for the year . . . . . 553 27

Sale of old material . . . . . 280 78

*Carried forward* . . . . . \$90,920 62

<i>Brought forward</i> . . . . .	\$90,920 62
Headhouse privileges . . . . .	400 00
Commissions on public telephones . . . . .	119 30
Care of public telephone booths . . . . .	48 00
Sale of coal . . . . .	651 58
Damages to ferry . . . . .	12 00
Total receipts for the year . . . . .	<u>\$92,151 50</u>

STATEMENT OF TRAVEL ON THE FERRIES FROM FEBRUARY 1,  
1920, TO JANUARY 31, 1921, INCLUSIVE.

	North Ferry.	South Ferry
Foot passengers at 1 cent each . . . . .	2,116,123	1,831,190
Foot passengers by ticket. . . . .	34,280	6,192
Foot passengers free . . . . .	125	3,180
Total foot . . . . .	<u>2,150,528</u>	<u>1,840,562</u>
One-horse teams, light motor trucks, pleasure carriages and runabouts . . . . .	230,860	206,394
Two-horse teams and motor trucks . . . . .	196,788	117,321
Three-horse teams and heavy motor trucks . . . . .	1,231	2,874
Four-horse teams . . . . .	1,672	2,099
Two-horse pleasure carriages and hacks and touring cars . . . . .	131,898	94,844
Handcarts, etc. . . . .	2,823	2,401
Drag wheels . . . . .	.....	1
Free teams, hacks and motor vehicles . . . . .	9,315	7,335
	<u>574,587</u>	<u>433,269</u>

Motor Vehicle Traffic.

*February 1, 1920, to January 31, 1921, included in above figures.*

	North Ferry	South Ferry.	Total.
Runabouts . . . . .	34,502	31,547	66,049
Touring cars . . . . .	1135,535	298,790	234,325
Trucks . . . . .	162,248	138,551	300,809
Total . . . . .	332,285	268,888	601,183

<sup>1</sup> Includes 4,326 free.

<sup>2</sup> " 4,315 "

<sup>3</sup> " 4,379 "

<sup>4</sup> " 2,321 "

Total, 15,341 free.

Total paying foot . . . . .	3,987,785
Total free foot passengers. . . . .	3,305
Total foot passengers carried . . . . .	<u>3,991,090</u>
Total paying teams . . . . .	991,209
Total free teams. . . . .	16,650
Total teams carried . . . . .	<u>1,007,859</u>

TOTAL TRAVEL ON BOTH FERRIES FROM FEBRUARY 1, 1915, TO  
JANUARY 31, 1921.

	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21
One-horse teams*.....	644,311	582,819	577,507	500,193	494,372	437,254
Two-horse teams†.....	276,850	291,795	308,564	306,672	330,023	314,109
Three-horse teams.....	5,410	4,723	3,538	3,471	4,372	4,105
Four-horse teams.....	4,507	6,640	7,089	7,598	4,542	3,774
Two-horse carriages, hacks‡....	84,389	94,333	110,203	132,743	173,821	226,742
Two-cent tolls, hand carts, etc..	3,195	3,537	3,570	3,265	4,935	5,224
Dragwheels, etc.....	4	1	.....	8	6	1
Paid teams at both ferries.....	1,018,666	983,848	1,010,471	953,950	1,012,071	991,209
Free teams at both ferries.....	10,844	12,067	15,177	21,708	17,447	16,650
Total teams at both ferries.....	1,029,510	995,915	1,025,648	975,658	1,029,518	1,007,859
Foot passengers paid.....	5,676,118	4,631,244	4,191,410	3,952,673	4,424,773	3,987,785
Foot passengers free.....	2,053	1,763	846	2,820	4,500	3,305
Total foot passengers.....	5,678,171	4,633,007	4,192,256	3,955,493	4,429,273	3,991,090

NOTE: The above team travel includes automobiles.

\*Includes one-seat automobiles. †Includes motor trucks. ‡Includes two-seat automobiles.

## APPENDIX C.

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### REPORT OF THE DIVISION ENGINEER OF THE HIGHWAY DIVISION.

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BOSTON, February 1, 1921.

MR. THOMAS F. SULLIVAN,  
*Commissioner of Public Works:*

DEAR SIR,— I submit herewith a statement of the activities, operations and expenditures of the Paving and Lighting Services for the year ending January 31, 1921.

The maintenance expenditures of the Highway Division for the year were as follows:

Lighting Service . . . . .	\$722,134 24
Paving Service . . . . .	1,589,641 10
Total . . . . .	<u>\$2,311,775 34</u>

#### PAVING SERVICE.

The department forces were employed in the maintenance of the streets, nine city steam road rollers and two hired rollers being employed in resurfacing and repairing the macadam streets throughout the city.

#### GENERAL PLANT.

Two asphalt mixing plants, one in Dorchester and one in Brighton, operated by the department forces have been producing both Topeka mixture and patching materials for the several districts. The nine steam road rollers received the usual overhauling and repairing during the winter months. All the boilers were inspected and passed by the state inspectors, but owing to the age of most of the machines it is expected that several will be rejected after this season. Tools and equipment have been kept in good condition by renewals and replacements, except some carts which are beyond repair.

There are 102 horses in fair condition. Many of these horses have grown old in the service and others that have been taken over from other divisions were old when transferred. It will be necessary to purchase some new stock to replace some of the present lame and halt.

The past year was probably the hardest, as regards road construction, ever known to this city. Abnormal construction conditions, due to transportation difficulties, high cost and scarcity of materials, delayed the proposed program and increased the cost of pavements so that the record of other years was not attained. The department was called upon to remove an unprecedented amount of snow and was engaged in this kind of work until late in March. Early in April construction was resumed on the thirteen (13) streets under contract and uncompleted from 1919. Contracts were awarded in 1920 to construct or repave sixty-seven (67) streets and forty-two (42) of them were completed, leaving twenty-four (24) to finish in 1921. About one hundred and fifty (150) streets were resurfaced by the department force with bituminous macadam or bituminous concrete.

About 76,000 square yards of granite block pavement was laid on the following streets: Albany street, from Broadway to Troy streets; Blackstone street, from Clinton street to Haymarket square; Dorchester avenue, from Dorchester Avenue Bridge to West second street; Dudley street, from Alexander street to Stoughton street; Federal street, from Franklin street to Dewey square; Friend street, from Union street to Merrimac street; Franklin street, from Devonshire street to Pearl street; Rutherford avenue, from Cambridge street to Chapman street; Grosvenor place, from Cliff street; Main street, from City square across Alford street; Public Alleys No. 710 and No. 818; Washington street, from Archdale road to beyond Corinth street. New granite blocks were laid on Albany street and Washington street and on the other streets the blocks were either relaid or recut.

About 56,000 square yards of sheet asphalt and binder was laid on the following streets, both on macadam base and on concrete base: Centre street, from Allandale street to South street; Cushman road, Brighton; Easton street, Brighton; Glenville avenue, Brighton; South street at Centre street; Tremont street, Dover street to Northampton street and William Jackson avenue, Brighton.

About 12,300 square yards of bitulithic pavement was laid in the following streets: Huntington avenue, at Jamaicaaway; Stuart street, from Clarendon street to Trinity place, and Washington street, Brighton.

About 58,000 square yards of Topeka pavement was laid in the following streets on both macadam base and concrete base: Babcock street; Beech street, from Parkway to Belgrade avenue; Belgrade avenue, from Anawan avenue to Centre street; Centre street, from South street to Spring street; Centre street, from Forbes street to Boylston street; Elder street; Falkland terrace; Farquhar street; Hamlin street; Harvard street, from Fabyan street to beyond Brookview street; Have-lock street; Hyde Park avenue, from Metropolitan avenue to River street; McCraw street; Pleasant street, from East Cottage street to Stoughton street; Pleasant street, from Stoughton street to Savin Hill avenue; Wilcock street; Wilbur street; Wollaston terrace and York street.

About 17,000 square yards of wood block pavement was laid on the following streets, all on a concrete base: Beacon street, from Massachusetts avenue to Raleigh street; Boylston street (northerly side), from Tremont street to Charles street; Charles street, from Fruit street to Allen street; Devonshire street, from Water street to Franklin street; East Fourth street, from K street to P street; Tremont street (westerly side), from Park street to Boylston street, and Washington street, from Beech street to Kneeland street.

About 4,300 square yards of macadam was laid on Mt. Vernon street, from Joy street to West Cedar street.

#### LIGHTING SERVICE.

There are in operation 5,354 arcs, 4,667 tungsten incandescents, 9,725 single mantle gas lamps and 143 fire alarm gas lamps, an increase of 71 over the preceding year. Part of this increase was the extension of the "white way" lighting in Tremont and Boylston streets to Park square, an installation of 23 new boulevard lamps. The Lighting Service is lighting 605 miles of public ways and about three hundred miles of private ways.

Yours respectfully,

JAMES H. SULLIVAN,  
*Division Engineer.*



## HIGHWAY DIVISION — LIGHTING SERVICE.

## FINANCIAL STATEMENT.

*Expenditures, February 1, 1920, to January 31, 1921.**Electric Lighting:*

	Arc.	
Edison Electric Illuminating Company . . . . .	\$393,659 73	
Charlestown Gas and Electric Company . . . . .	23,311 18	
		\$416,970 91

*Incandescent.*

Edison Electric Illuminating Company . . . . .	\$82,399 61	
Charlestown Gas and Electric Company . . . . .	21 12	
		82,420 73

*Gas Lighting:*

Boston Consolidated Gas Company . . . . .	\$195,537 20	
Charlestown Gas and Electric Company . . . . .	10,536 94	
Charlestown Gas and Electric Company fire alarm lamps . . . . .	399 97	
		206,474 11

*Salaries and Wages:*

Division Engineer (part of) . . . . .	\$1,250 00	
Clerk and supervisor . . . . .	1,859 89	
Stenographer and clerk . . . . .	1,311 72	
Lighting inspectors . . . . .	963 69	
Pensions . . . . .	360 00	
		5,745 30

*Automobile Expenses: (2 automobiles):*

Registration . . . . .	\$10 00	
Gasolene, oil, etc. . . . .	185 85	
Shoes and tubes, new and repairs . . . . .	154 60	
Supplies . . . . .	22 43	
Repairs . . . . .	46 30	
		419 18

*Construction:*

Installing lamps and posts and removing and relocating lamps, posts etc., less rebates . . . . .	3,427 87	
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<i>Carried forward . . . . .</i>	\$715,458 10
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<i>Brought forward</i> . . . . .		\$715,458 10
<i>Office Expenses:</i>		
Printing . . . . .	\$118 80	
Postage . . . . .	29 00	
Stationery and periodicals . . . . .	41 52	
	<hr/>	189 32
<i>Miscellaneous.</i>		
Telephone tolls . . . . .	\$4 00	
Travel expenses (car fares) . . . . .	26 74	
Typewriter repairs and inspection . . . . .	13 50	
Broken lamps . . . . .	60	
Globes and shade frames . . . . .	97 00	
	<hr/>	141 84
Installing boulevard lamps on Tremont and Boylston streets . . . . .		6,344 98
		<hr/>
		\$722,134 24

*Revenue Credited to General Revenue.*

Lighting Boston and Cambridge bridges . . . . .	<u>\$2,573 29</u>
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The following is a statement of the work done during the year under the supervision of the Division Engineer, Highway Division:

Arc lamps have been provided for skating and tobogganing during the season at Franklin Field, Franklin Park and Wood Island Park the same as in years past.

The "white way" on Tremont street was extended from Park street to Boylston, and Boylston, from Tremont to Park square, by the installation of 23 new boulevard lamps. Tenen beach, 4 new magnetite arc lamps were installed. In addition to these, throughout the city the lighting system was increased by the installation of 27 new magnetite arcs and 57 incandescent and 22 gas lamps at various locations. The usual amount of regulation and relocation of lamps and services made necessary by street construction, the building of sewers and other works, has been conducted throughout the year.

Petitions and requests for new lamps received from citizens and from officials, also complaints in relation to the Lighting Service, have been investigated and attended to. All streets in the underground district prescribed for the year have been inspected and necessary changes and additions have been made.

The number of miles of streets and ways lighted by this service is as follows:

Public streets and alleys . . . . .	603.71	
Public footways . . . . .	1.31	
Park roads, footways and private streets and alleys, approximately . . . . .	300.00	
		<u>905.02</u>

During the year the following defects were reported by the police: Arc lamps, 7,703; incandescent, 2,939, and gas lamps, 9,572.

There are in operation 19,889 arc, incandescents and gas lamps, divided as follows: 5,354 arcs, 4,667 tungsten incandescents, 9,725 single mantle gas lamps and 143 fire alarm gas lamps.

## LAMPS INSTALLED.

Magnetite arc lamps . . . . .	40	
Tungsten lamps . . . . .	57	
Single mantle gas lamps . . . . .	22	
	—	119

## LAMPS DISCONTINUED.

Magnetite arc lamps . . . . .	4	
Tungsten lamps . . . . .	9	
Single mantle gas lamps . . . . .	34	
Fire alarm gas lamps . . . . .	1	
	—	48
		<u>—</u>
Net increase . . . . .		71

The following table shows the work of setting, repairing and altering lamp posts, brackets, services, etc.

	Set for Lamps.	Set in Place of Broken Posts	Shifted to New Location.	Straight- ened.	Reset to Line and Grade.	Unused Posts Removed.	Repaired	Laid.	Relaid.	Recon- nected.	Cleared.	Set in Place of Brackets.	Shades.
Gas posts.....	28	59	23	1	51	49	17			5		2	10
Arc posts.....	40		10	2	76								8
Tungsten posts.....	23	5	2	1	38	4						6	2
Gas brackets.....						3	2						
Arc fixtures.....													
Tungsten fixtures.....	34					5				1		1	
Services.....							9				200		

The following table shows the number of lamps of various types in use on January 1, 1921, as compared with the number in use on January 1, 1920:

	January, 1921.	January, 1920.	Increase or Decrease.
Single mantle gas .....	9,725	9,737	—12
Fire alarm gas. . . . .	143	144	— 1
Magnetite arc.....	5,354	5,318	+36
Tungsten incandescent.....	4,667	4,619	+48
	19,889	19,818	+71

#### STREET LAMP OUTAGES.

Rebates for lamps not lighted on schedule time or out before the proper time have been received on the various monthly bills as follows:

DATE.	Incandescent.	Gas.	Arc.
February, 1920.....	\$6 66	\$56 86	\$253 66
March.....	18 84	375 31	299 61
April.....	22 10	397 93	441 63
May.....	15 08	222 18	333 98
June.....	6 62	27 76	145 83
July.....	11 50	8 17	107 89
August.....	7 20	5 34	69 17
September.....	19 73	9 30	86 26
October.....	16 13	9 46	118 55
November.....	15 07	17 38	135 87
December.....	8 96	30 21	241 34
January, 1921.....	11 97	37 77	259 36
	\$159 85	\$1,197 67	\$2,543 14

#### GAS LIGHTING.

There are 9,725 single mantle gas lamps and 143 open flame fire alarm signal lamps.

The city furnishes the lamp-posts, the gas company set the lamp-posts and provides service pipes laid from the gas mains to the top of the posts; maintain all such pipes and posts in good condition and repair; furnish gas, lanterns, burners and all other necessary equipment, including labor for lighting and care.

The Lighting Service provides for the gas, lighting and care of the fire alarm signal lamps, and the Fire Department for the lanterns, posts, setting and repairing of same.

## Gas Lamps.

LIGHTING CONTRACT.	Gas District.	Number of Lamps.	Type of Lamps.	Rated Candle Power.	Gas Consumed per Lamp per Hour.	Hours of Burning per Annum.	Cost of Gas per Lamp per Annum.	Cost of Lamp for Lighting, Care and Repair per Annum.	Total Cost per Lamp.
Boston Consolidated Gas Company.	South Boston, East Boston, Dorchester, Roxbury, Brighton.	9,221	Single mantle.	60	3 feet.	4,000	\$9 00	\$12 00	\$21 00
		124	Open flame.	.....	4 feet.	4,000	.....	.....	21 00
	Charlestown Gas and Electric Company	504	Single mantle.	60	3 feet.	4,000	9 00	12 00	21 00
		19	Open flame.	.....	4 feet.	4,000	.....	.....	21 00

## ELECTRIC LIGHTING.

There are in use 5,354 magnetite arc lamps, 3,323 40 candle power, 1,306 60 candle power, 17 100 candle power, 10 200 candle power and 11 500 candle power tungsten lamps.

The electric companies provide and set the lamp-posts, except the lamp-posts for incandescent lamps supplied from underground circuits, furnish lamps, overhead wires, underground conduits, cables and connections and all other necessary equipment and maintain them in good condition and repair.

The lighting rates for electric lamps are in accordance with the following table:

DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Hour.	Running Costs per Lamp Hour.
40 candle power incandescent lamp, series.....	\$10 80	\$0.18 cent
40 candle power incandescent lamp, multiple.....		.25 cent
60 candle power incandescent lamp, series.....	12 00	.2 cent
60 candle power incandescent lamp, multiple.....		.3 cent
100 candle power incandescent lamp, series.....	18 00	.4 cent
100 candle power incandescent lamp, multiple.....		.5 cent
200 candle power incandescent lamp, series.....	25 00	1 cent
500 candle power incandescent lamp, multiple.....	36 00	1.5 cents

A discount of 10 per cent is made on the above rates for lamps in all sections of the city. A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is made for outages.

## Arc Lamps.

COMPANY.	Number of Lamps.	Connected.	Type of Lamp.	Type of Circuit.	At Terminal.	Lighting Hours.	Cost per Lamp per Annum.
Edison Electric Illuminating Company.....	{ 1,694	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	\$79 60
	{ 3,336	Underground.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	79 60
	{ 26	Underground.	Magnetite.	Multiple D. C.	.....	3,828	87 52
Charlestown Gas and Electric Company.....	{ 222	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	79 60
	{ 76	Underground.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	79 60

NOTE.— In the above the candle power figures are the official designations. The wattage figures are here eliminated.



## Incandescent Lamps.

COMPANY.	Number of Lamps.	Type of Lamp.	Type of Circuit.	Candle Power.	Lighting Hours.	Cost of Lamp per Annum.
Edison Electric Illuminating Company	1,873	Tungsten.	Series 6.6 amp. D. C.	40	3,828	\$15 92
	739	Tungsten.	Series 6.6 amp. D. C.	60	3,828	17 69
	3	Tungsten.	Series 6.6 amp. D. C.	100	3,828	29 98
	1,450	Tungsten.	Multiple D. C.	40	3,828	18 33
	566	Tungsten.	Multiple D. C.	60	3,828	21 14
	14	Tungsten.	Multiple D. C.	100	3,828	33 43
	10	Tungsten.	Series 6.6 amp. D. C.	200	3,828	63 28
	11	Tungsten.	Multiple D. C.	500	3,828	84 08
	1	Tungsten.	Multiple D. C.	60	3,828	21 14
Charlestown Gas and Electric Company						

NOTE.—In the above the candle power figures are the official designations. The wattage figures are here eliminated.

## PAVING SERVICE.

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The following is a description of the most important work done during the year:

### GRANITE BLOCK PAVEMENT.

**Albany street**, from Broadway to about 75 feet south of Troy street. (See "Assessment Streets.")

**Blackstone street**, from Clinton street to Haymarket square, is about 1,115 feet in length. A contract for relaying the granite block pavement in this street was awarded to Coleman Brothers, Inc., on August 3, 1920. Considerable repaving was done outside the prescribed limits of the contract on Blackstone street, North street and Creek square. A new 6-inch concrete base was laid between Clinton street and 7 feet west of the east tangent of Creek square. From this point to Hanover street, the old concrete base was practically cut to pieces; in some places the width of the old concrete base being only 13 feet of the original 40 feet. From Hanover street to Haymarket square the old concrete base was in fair condition. The granite blocks were laid upon the concrete base with a sand bed and grouted joints. The edgestone was reset and the old brick sidewalks were replaced with artificial stone sidewalks. The sidewalks and roadway were laid under a five-year maintenance guaranty.

**Dorchester avenue**, from Dorchester Avenue Bridge to West Second street, is about 749 feet in length. A contract for paving this street with second-hand granite blocks with grout joints on a concrete base was awarded to John Kelly Company August 29, 1920. The street is from 60 to 75 feet in width with a roadway of 40 to 55 feet in width and sidewalks 9 to 11 feet in width. The contractor reset the edgestone, barred out, cleaned, culled and piled the existing granite blocks and excavated the roadway. The roadway was paved with second-hand granite blocks with grout joints on a 6-inch concrete base, under a five-year maintenance guaranty. The existing brick sidewalks were relaid. The straight edgestone, corners and circular edgestone were furnished by the city on the line of the work. Second-hand granite blocks for renewals were furnished by the city at the Dorchester avenue pile and hauled by the contractor. Second-hand sidewalk bricks were furnished by the city at the Chestnut Hill avenue paving yard and hauled by the contractor. All other materials were furnished by the contractor. The car tracks were set to grade by the Boston Elevated Railway Company and the area between the rails paved with recut granite blocks with grout joints on

a 6-inch concrete base. The former surface of the street was granite block, gravel base and joints, with brick sidewalks.

**Dudley street**, from Alexander street to Stoughton street, is about 1,400 feet in length. A contract for repaving this street was awarded to De Stephano Brothers August 18, 1920. It is a 60-foot street with 10-foot artificial stone sidewalks, granite edgestone and a 40-foot roadway with a double car track in the center. The roadway is paved with granite blocks, grout joints, on a 6-inch cement concrete base. The best of the old blocks in the roadway were selected and used in the new work. The rejected granite blocks and other surplus paving materials were hauled to the city lot by the contractor. The new edgestone was furnished by the city on the line of work. The paving blocks required to complete the work were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks and granite block pavement were laid under a five-year maintenance guaranty. The street car tracks were set to grade and paved by the Boston Elevated Railway Company. Only a small part of the work remained unfinished when the work was suspended on account of cold weather. Work will be resumed in the spring.

**Fargo street**, from B street to C street. (See "Assessment Streets.")

**Federal street**, from Milk street to Dewey square, is about 1,293 feet in length. A contract for paving this street with recut granite blocks and wood blocks was awarded to James Doherty October 19, 1919. Work was commenced October 23, 1919; suspended December 30, 1919; resumed April 1, 1920, and completed May 4, 1920. The roadway is 40 feet in width with sidewalks 10 feet in width. The contractor did the excavating and recut the edgestone where directed. The old concrete base was cleaned and brought up to grade with new concrete. From Milk street, across Franklin street, the roadway was paved with wood blocks on a cement mortar bed with sand joints, under a five-year maintenance guaranty. From Franklin street, to Dewey square, the roadway was paved with recut granite blocks on a sand bed with grout joints, under a five-year maintenance guaranty. All materials were furnished by the contractor. The car tracks were set to grade by the Boston Elevated Railway Company, and the area between the rails paved to conform with the work done by the contractor, except where granite blocks were laid, they were not recut. The former surface of the street was granite block with pitch joints on a concrete base. In connection with this contract, work was done in Purchase street and High street where the existing granite blocks were relaid with grout joints. Channing street, from Federal street to Congress street, was paved with second-hand granite blocks with grout joints on a gravel base. All the above work was done under a five-year maintenance guaranty.

**Friend street**, from Union street to Causeway street, is about 1,860 feet in length. A contract for paving this street with second-hand granite blocks with grout joints on a concrete base was awarded to B. E. Grant Company October 11, 1920. The street is about 35 feet in width with a roadway 25 feet in width and sidewalks 5 feet in width. Work was commenced October 22, 1920 and suspended November 15, 1920. The contractor reset the edgestone, barred out, culled and piled the old granite blocks and excavated the roadway. The roadway was paved with second-hand granite blocks with grout joints on a 6-inch concrete base, under a five-year maintenance guaranty. The brick sidewalks were replaced with artificial stone on existing foundation under a five-year maintenance guaranty. The straight edgestone, circles and corners were furnished by the city on the line of work. Granite blocks, for renewals, were furnished by the city at the Massachusetts avenue lot and hauled by the contractor. All other materials were furnished by the contractor. Work will be resumed in the spring.

**Franklin street**, from Devonshire street to Broad street, is about 820 feet in length. A contract to repave this street was awarded to James Doherty June 25, 1920. The contractor removed the existing granite block, repaired the old concrete base and relaid the old granite blocks with grout joints. The work was done from 60 feet west of Devonshire street to Pearl street and was suspended on account of new building construction which was going on beyond this point. The city furnished all additional granite blocks that were required and all other materials were furnished by the contractor. The pavement was relaid under a five-year maintenance guaranty.

**Grosvenor place**, from Cliff street. (See "Assessment Streets.")

**Main street**, from City square across Alford street, is about 5,690 feet in length. A contract for repaving this street with recut granite blocks, with grout-joints, on a 6-inch concrete base was awarded to William J. Barry June 10, 1919. Work was commenced July 14, 1919; suspended January 8, 1920; resumed April 5, 1920 and completed June 12, 1920. The roadway is from 33 to 65 feet in width with sidewalks 7 to 15 feet in width. The contractor excavated the roadway, set the edgestone and paved the roadway with recut granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone on the existing foundation. The straight edgestone and corners were furnished by the city and hauled by the contractor. The circular edgestone was delivered at the line of work. The granite blocks used were recut by the contractor on the street and at the Massachusetts avenue lot, Dorchester avenue lot and East Fifth street lot. The recut granite block pavement and the artificial stone sidewalks were laid under a five-year

maintenance guaranty. The car tracks were set to grade by the Boston Elevated Railway Company, and the area between the rails paved with recut granite blocks with grout joints on a 6-inch concrete base. The old granite blocks in the part of the street between Mead street and Alford street were bought by the contractor. The former surface of the street was granite block with gravel joints and gravel bed.

**Public Alley No. 710**, from East Brookline street to East Newton street. (See "Assessment Streets.")

**Public Alley No. 909**, from Massachusetts avenue to Hemenway street. (See "Assessment Streets.")

**Public Alley No. 818**, from St. Stephens street. (See "Assessment Streets.")

**Portland street**, from Hanover street to Causeway street. A contract to repave this street with granite block pavement was awarded to the B. E. Grant Company on October 11, 1920. Owing to the lateness of the season, the work was not started. The street will be completed in the spring.

**Richmond street**, from Hanover street to Atlantic avenue. A contract to repave this street with granite block pavement was awarded to B. E. Grant Company. Owing to the lateness of the season, work was not started. The contract was awarded October 11, 1920. The street will be completed in the spring.

**Rutherford avenue**, from Cambridge street to Chapman street, is about 3,800 feet in length. A contract to repave the surface of this street was awarded to Coleman Brothers, Inc., November 24, 1919. The contractor reset the edgestone, relaid the bricks sidewalks and repaved the roadway with recut granite blocks on a 6-inch concrete base with cement grout joints. The existing granite blocks were barred up and recut by the contractor and additional granite blocks received were recut and hauled from the Medford street yard and from the Massachusetts avenue lot. The city furnished the new edgestone, the sidewalk bricks and paving blocks. All other materials were furnished by the contractor who also bought the old flagging and rejected paving blocks used in the old pavement. The new pavement was laid under a five-year maintenance guaranty.

**Washington street**, from Archdale road to 75 feet south of Corinth street, is about 3,387 feet in length. A contract for constructing the surface of this street was awarded to William J. Barry June 25, 1920. It is a 60 foot street with granite edgestone, 8-foot sidewalks, principally of gravel and the roadway is paved with 5-inch granite blocks on 6-inch concrete base with grout joints, on each side of car tracks location. The pavement was laid under a five-year maintenance guaranty. With the exception of a comparatively small amount of artificial stone sidewalks, the work was completed this year. The sidewalk will be laid in the spring, as soon as weather conditions permit.

## ASPHALT PAVEMENT.

**Centre street**, from Allandale street to South street is about 6,502 feet in length. A contract to surface this street with a sheet asphalt pavement, laid upon the existing macadam, was awarded to The Bermudez Company September 7, 1920. A retaining wall 170 feet in length was constructed at the corner of South street. Considerable pavement was laid outside original limits for approaches to business plants. With the exception of a small area, the roadway is practically completed.

**Cushman road**, from Dustin street to Glencoe street. (See "Assessment Streets.")

**Easton street**, from North Harvard street to Mansfield street. (See "Assessment Streets.")

**Glenville avenue**, from Greylock road to Allston street. (See "Assessment Streets.")

**South street**, from Centre street about 270 feet easterly. (See "Assessment Streets.")

**Tremont street**, from Dover street to Northampton street is about 3,854 feet in length. A contract for paving this street with an asphalt pavement was awarded to B. E. Grant Company November 18, 1919. This street is about 100 feet in width with a roadway 70 feet in width and sidewalks 15 feet in width. Work was commenced December 12, 1919; suspended December 31, 1919; resumed April 5, 1920 and completed September 20, 1920. The contractor reset the edgestone and excavated the roadway. The roadway was paved with 1½-inch asphalt wearing surface on 1½-inch bituminous concrete binder on a 6-inch Portland cement concrete base. The brows, dummy, edgeings and driveways were paved with recut granite blocks with grout joints on a 6-inch concrete base. The brick sidewalks were replaced with artificial stone on the existing foundation. The asphalt pavement, granite blocks and artificial stone sidewalks were laid under a five-year maintenance guaranty. The straight edgestone, circles and corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The granite blocks were recut on the line of work and at the Massachusetts avenue lot. The car tracks were set to grade by the Boston Elevated Railway Company and the area between the rails paved with recut granite blocks with grout joints on a 6-inch concrete base. In connection with this contract, Montgomery street, from Clarendon street to Dartmouth street, and Union Park street, from Tremont street to Montgomery street were paved with an asphalt pavement on a macadam foundation, under a five-year maintenance guaranty. The edgestone was reset and the brick sidewalks replaced with artificial stone where directed, under a five-year maintenance guaranty. The former surface of Tremont street was granite block, gravel base and joints with brick sidewalks and on Montgomery street and Union Park street the surfaces were macadam with brick sidewalks.

**William Jackson avenue**, from Chestnut Hill avenue to Audubon road. (See "Assessment Streets.")

#### BITULITHIC PAVEMENT.

**Huntington avenue**, at Jamaicaaway. A contract for re-surfacing the southerly roadway of Huntington avenue for about 150 feet, to conform with the pavement then being laid by the Park and Recreation Department on Jamaicaaway, was awarded to Warren Brothers Company September 22, 1920. About 485 square yards of 2-inch bitulithic wearing surface on the existing macadam base was laid under this contract. The contractor furnished all the new materials and guaranteed the bitulithic pavement for a period of five years. The former surface of the street was bituminous macadam.

**Stuart street**, from Clarendon street to Trinity place. (See "Assessment Streets.")

**Washington street**, Brighton, from Market street to Tremont street, is about 4,120 feet in length. A contract to pave the surface of this street with bitulithic pavement was awarded to Warren Brothers Company October 8, 1919. The contractor hauled and set the new straight edgestone, set the circular edgestone and reset the old edgestone and furnished and laid artificial stone sidewalks. The old gutters were removed and the bitulithic pavement was laid on the old macadam as a foundation. The Boston Elevated Railway Company car tracks were set to grade and paved with recut granite blocks on a concrete base with grout joints. The south side of the street, from Oakland street to Lake street, was paved with recut granite blocks on a concrete base with grout joints, on account of the heavy teaming on the steep grade. The city furnished the paving blocks and edgestone. All other materials were furnished by the contractor. The pavement and sidewalks were laid under a five-year maintenance guaranty. Most of the work was done in 1919.

#### TOPEKA PAVEMENT.

**Arbutus street**, from Blue Hill avenue to Irma street. (See "Assessment Streets.")

**Archdale road**, from Washington street to South street. (See "Assessment Streets.")

**Babcock street**, from Commonwealth avenue to Boston & Albany Railroad. (See "Assessment Streets.")

**Beech street**, from West Roxbury Parkway to Belgrade avenue. (See "Assessment Streets.")

**Belgrade avenue**, from Anawan avenue to Centre street. (See "Assessment Streets.")

**Centre street**, from South street to Spring street. (See "Assessment Streets.")

**Centre street**, Jamaica Plain, from Forbes street to Boylston street, is about 1,386 feet in length. A contract to pave the

surface of this street with Topeka pavement was awarded to the Central Construction Company November 23, 1920. The contractor set the new edgestone and reset the old stone, removed the old gutters and paved the roadway with Topeka on a macadam foundation. The brows of car tracks were repaved with grout joints. Some of the brick sidewalk has been relaid and the balance of the brick sidewalk and some artificial stone are to be laid in the spring. The city furnished the edgestone, paving blocks and sidewalk materials. All other materials were furnished by the contractor. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Cummington street**, from Commonwealth avenue to Boston & Albany Railroad. (See "Assessment Streets.")

**Elder street**, from Columbia road to Humphreys street. (See "Assessment Streets.")

**Falkland terrace**, from Hobart street to Brooksdale road. (See "Assessment Streets.")

**Farquhar street**, from Selwyn street to Centre street. (See "Assessment Streets.")

**Green street**, Jamaica Plain, from Call street to Centre street, is about 1,992 feet in length. A contract to pave the surface of this street was awarded to the Central Construction Company November 23, 1920. Due to the lateness of the season, nothing was done on this street. The work to be done is to reset the edgestone, furnish and lay artificial stone sidewalks and pave the roadway with Topeka pavement on the old macadam as a foundation.

**Green street**, from Washington street across Call street, is about 888 feet in length. A contract for constructing this street was awarded to the Central Construction Company October 22, 1919. Work was begun October 20, 1919; suspended December 15, 1919; resumed September 16, 1920, and completed October 2, 1920. The sidewalks were completed and a Topeka pavement on a 6-inch concrete base laid in driveways this year. The contractor furnished all materials. The artificial stone sidewalks and Topeka pavement were laid under a five-year maintenance guaranty.

**Hamlin street**, from East Eighth street to Columbia road. (See "Assessment Streets.")

**Harvard street**, from Fabyan street to beyond Brookview street. (See "Assessment Streets.")

**Havelock street**, from Blue Hill avenue to Morton street. (See "Assessment Streets.")

**Hyde Park avenue**, from Metropolitan avenue to River street. (See "Assessment Streets.")

**McCraw street**, from Belgrade avenue to West Roxbury Branch Railroad. (See "Assessment Streets.")

**Pleasant street**, from East Cottage street to Stoughton street, is about 1,418 feet in length. A contract for repaving this street was awarded to the Central Construction Company



August 16, 1920. This street is from 70 to 73 feet in width with sidewalks from 10 to 18 feet in width, having a 10-foot artificial stone walk and a loam space, granite edgestone and a 2-inch Topeka roadway laid on the existing macadam base. The new circular edgestone was furnished by the city on the line of work. The contractor furnished all other new materials and hauled the surplus paving materials to the city lot on Massachusetts avenue. The artificial stone sidewalks and Topeka roadway were laid under a five-year maintenance guaranty. The former surface of this street was bituminous macadam.

**Pleasant street**, from Stoughton street to Savin Hill avenue, is about 830 feet in length. A contract for repaving the surface of this street was awarded to Francis J. Burke October 15, 1920. It is a 60-foot street with 10-foot artificial stone sidewalks, granite edgestone and a 40-foot roadway, paved with a 2-inch Topeka wearing surface on a 6-inch cement concrete base. A double track runs through the center of the street which was regulated by the Boston Elevated Railway Company. The space between the tracks was paved by the contractor with granite blocks and grout joints on a 6-inch cement concrete base. The new edgestone was furnished by the city on the line of work. All other materials were furnished by the contractor who hauled the surplus paving materials to the city yard. The artificial stone sidewalks and Topeka roadway were laid under a five-year maintenance guaranty. The former surface of the street was asphalt macadam.

**River street**, from bridge over the Providence Division Railroad across Everett square, is about 1,269 feet in length. A contract to pave this street with Topeka was awarded to the Central Construction Company on November 2, 1920. Owing to the lateness of the season, work was not started.

**Wilcock street**, from Blue Hill avenue to Morton street. (See "Assessment Streets.")

**Wilbur street**, from Cushing avenue to Upham avenue. (See "Assessment Streets.")

**Wollaston terrace**, from Woodrow avenue to Jones avenue. (See "Assessment Streets.")

**York street**, from Glenway street to Greenwood street. (See "Assessment Streets.")

#### WOOD BLOCK PAVEMENT.

**Beacon street**, from Massachusetts avenue to Raleigh street, is about 1,455 feet in length. A contract for paving this street with wood block with a sand joint on a concrete base was awarded to James Doherty October 22, 1919. This street is 60 feet in width with a roadway 40 feet in width and sidewalks 10 feet in width. The contractor did the excavating and set the edgestone. The old concrete base was removed where necessary and replaced with a new 6-inch concrete base. The remainder was cleaned and brought up to grade with new

concrete. A wood block pavement was laid on the concrete base on a 1-inch cement mortar bed with sand joints. The work was done under a five-year maintenance guaranty. In parts of the dummy, the existing wood block was relaid. The brick sidewalks were replaced with artificial stone on existing foundation and provided with tree pits under a five-year maintenance guaranty. The straight edgestone, circles and corners were furnished by the city on the line of work. All other materials were furnished by the contractor. Between Charlesgate East and Raleigh street, the car tracks were set to grade by the Boston Elevated Railway Company, and the area between the rails paved to conform to the work done by the contractor. The former surface of the street was wood block on a concrete base with brick sidewalks.

**Boylston street** (northerly side), from Tremont street to Charles street. (See "Assessment Streets.")

**Charles street**, from Fruit street to Allen street, is about 670 feet in length. A contract for paving this street with wood block with sand joints on a concrete base was awarded to John McCourt Company July 2, 1920. This street is 60 feet in width with a roadway 40 feet in width and sidewalks from 11 to 14 feet wide. The contractor removed the old asphalt pavement, reset the edgestone, chipped and removed the old concrete base, where directed, and brought it up to the proper grade with new concrete. A wood block pavement was laid on the concrete base with cement mortar bed and sand joints, under a five-year maintenance guaranty. On the east sidewalk, the brick sidewalk was replaced with artificial stone, laid under a five-year maintenance guaranty. On the west side, the brick sidewalk was relaid under a five-year maintenance guaranty. The straight edgestone corners and circular edgestone were furnished by the city on the line of work. All other materials were furnished by the contractor. The car tracks were set to grade by the Boston Elevated Railway Company and the area between the rails paved to conform with the work done by the contractor. The former surface of the street was asphalt on a concrete base with brick sidewalks.

**Devonshire street**, from Franklin street to Water street, is about 730 feet in length. A contract to pave the surface of this street with wood block was awarded to James Doherty May 12, 1920. The contractor removed the existing asphalt pavement, repaired the old concrete base and furnished and laid the wood block pavement on a cement mortar bed with sand joints, under a five-year maintenance guaranty. Considerable granite block paving was relaid with grout joints at the Milk street intersection. All materials were furnished by the contractor.

**East Fourth street**, from K street across P street, is about 2,813 feet in length. A contract for constructing the surface for this street was awarded to John E. Quinn May 7, 1919. Work was begun May 28, 1919 and suspended January 8, 1920.

Work was resumed April 12, 1920 and completed May 29, 1920. It is a 50-foot street with artificial stone sidewalks about 8 feet in width, granite edgestone and a roadway about 34 feet in width, paved with 3½-inch wood block on a 6-inch concrete base, except that the intersection of M street, N street and P street and a part of the dummy between the car tracks are paved with granite blocks with grout joints on a concrete base. A single car track which runs through the center of the street from K street to L street and a double track from L street to P street was regulated by the Boston Elevated Railway Company. The granite block paving in the dummy, between the car tracks, from N street to P street and the wood block paving in the widening at the northeast corner of the street were laid by the city forces. The former surface of the street was granite block with gravel joints on a gravel bed.

**Tremont street** (northerly side), from Park street to Boylston street. (See "Assessment Streets.")

**Washington street**, city proper, Beach street across Kneeland street, is about 290 feet in length. A contract to pave the surface of this street was awarded to James Doherty May 12, 1920. The contractor reset the edgestone, repaired the old concrete base and furnished and laid a wood block pavement on a mortar bed with sand joints. Considerable granite block paving was relaid at the intersection of Beach street and Kneeland street. The work at Kneeland street is yet to be done and will be completed when the street car tracks are set to grade. The walks and pavement are laid under a five-year maintenance guaranty. The contractor furnished all materials necessary to do the work excepting a small amount of edgestone. Work will be resumed in the spring.

#### SIMASCO PAVEMENT.

**Arlington street**, Brighton, from Market street across Leicester street, is about 475 feet in length. A contract to pave the surface of this street with Simasco pavement was awarded to Simpson Brothers Corporation November 2, 1920. The contractor set the new edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation. Owing to the lateness of the season the pavement has not been laid but will be completed in the spring. The block gutters are to be removed and the pavement laid on a macadam foundation.

**Market street**, from Washington street across Western avenue, is about 5,015 feet in length. A contract to pave the surface of this street with a Simasco pavement was awarded to Simpson Brothers Corporation November 2, 1920. Owing to the lateness of the season, little work has been done on this contract. It consisted of setting the edgestone and furnishing and laying the artificial stone sidewalks in front of the church near Arlington street. The work to be done is to set and reset

edgestone, furnished and lay artificial stone sidewalks and pave the roadway with Simasco pavement on the old macadam foundation and to pave the dummy and brows of car tracks with recut granite blocks with grout joints.

#### BITUMINOUS MACADAM PAVEMENT.

**Mt. Vernon street**, from Joy street to West Cedar street, is about 1,200 feet in length. A contract for paving this street with brick blocks with grout joints on a 6-inch concrete base, was awarded to John W. O'Connell October 3, 1920. A change was made in the contract and the brick block pavement was omitted and bituminous macadam substituted. This street has a roadway from 26 to 34 feet in width and sidewalks 8 to 12 feet in width. The contractor reset the edgestone, removed the cobble gutters and graded the roadway. On the foundation thus prepared the contractor spread and rolled the crushed stone. The straight edgestone, circles and corners were furnished by the city on the line of work. The crushed stone for the roadway was furnished by the city and spread by the contractor. The tar binder was furnished and applied by the city. All other materials were furnished by the contractor. The existing brick sidewalks were relaid. The former surface of this street was macadam with cobble gutters and brick sidewalks.

#### ARTIFICIAL STONE SIDEWALKS.

**Ashmont street**, from Neponset avenue to Train street, is about 1,035 feet in length. A contract for constructing the artificial stone sidewalks on the north side of this street was awarded to Joseph A. Singarella May 24, 1920. Work was begun June 2, 1920 and completed July 10, 1920. It is a 45-foot street with artificial stone sidewalks on the north side, from 8 to 10 feet in width, granite edgestone, granite block gutters and macadam roadway. The circular edgestone was furnished by the city and all other materials were furnished by the contractor. The sidewalk was laid under a five-year maintenance guaranty.

**Ashfield street**, from Walter street to Fairview street, is about 791 feet in length. A contract for constructing the artificial stone sidewalks was awarded to John Kelly Company July 2, 1920. Work was begun August 2, 1920 and completed September 29, 1920. The edgestone was set and reset, part of which was set on crushed stone and concrete foundation. Granite block gutters were laid and artificial stone sidewalks constructed 7 feet in width. The edgestone was furnished on the line of work by the city. The granite blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Brooks street**, Brighton, from Hobart street to Faneuil

street, is about 1,132 feet in length. A contract for constructing artificial stone sidewalks was awarded to Piazuolo and Alfieri, July 2, 1920. Work was begun June 29, 1920 and completed September 4, 1920. The contractor did the excavating and hauled the surplus material to Cushman road, set the edgestone, furnished and placed the cinder foundation and laid the artificial stone sidewalks. The walks on the east side of the street are full width, 8 feet wide, while on the west side of the street, from Fancuil street to Bigelow street the walks are 11 feet wide with 5-foot artificial stone sidewalks and a loam space. From Bigelow street to Gerrish street is full width of 9 feet, consisting of 5-foot artificial stone sidewalks and a loam space. The city furnished all the new edgestone. The contractor furnished, graded and seeded the loam space. All other materials were furnished by the contractor. The walks were laid under a five-year maintenance guaranty.

**Broadway** (south side), from Washington street to Shawmut avenue, is about 408 feet in length. A contract to furnish and lay artificial stone sidewalks was awarded to the Pignat Vincenzi Mosaic Company, November 25, 1919. Work was started November 25, 1919; suspended December 2, 1919; resumed May 18, 1920 and completed May 26, 1920. The contractor furnished all the materials necessary to do the work.

**Congreve street**, from South street to Centre street, is about 1,422 feet in length. A contract for constructing artificial stone sidewalks was awarded to the John Kelly Company July 2, 1920. Work was begun July 8, 1920 and completed September 23, 1920. The edgestone was reset, part of which was set on the crushed stone and concrete foundation. Granite block gutters were relaid and artificial stone sidewalks, 7 feet in width, were constructed. Small corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The artificial sidewalks were laid under a five-year maintenance guaranty.

**Hastings street**, from Centre street to Montview street, is about 1,127 feet in length. A contract for constructing artificial stone sidewalks was awarded to the John Kelly Company July 2, 1920. Work was begun September 7, 1920 and completed October 26, 1920. The edgestone was furnished by the city on the line of work and set by the contractor, a part of which was set on crushed stone and concrete foundation. Granite block gutters were laid and artificial stone sidewalks constructed, 7 feet in width. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Linden street**, Brighton, from Brighton avenue towards Commonwealth avenue, is about 491 feet in length. A contract to construct artificial stone sidewalks in this street was awarded to Piazuolo and Alfieri July 2, 1920. The contractors reset the edgestone, relaid the granite block gutters and fur-

nished and laid artificial stone sidewalks under a five-year maintenance guaranty. Work was begun August 20, 1920 and completed September 22, 1920. The city furnished the new edgestone and all the other materials were furnished by the contractor.

**La Grange street**, (north side), from Centre street to Landseer street, is about 1,005 feet in length. A contract for constructing the artificial stone sidewalks was awarded to Joseph Todesca November 26, 1920. Work was begun November 15, 1920 and suspended December 9, 1920. The edgestone was set, a 2-foot granite block gutter laid and the foundation for artificial stone sidewalks laid this year. The work will be resumed in the spring as early as weather conditions permit. The edgestone was furnished by the city on the line of work, and the granite blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor.

**Neponset avenue**, from King square to Victory road, is about 651 feet in length. A contract for constructing an artificial stone sidewalk on the west side of the street was awarded to Joseph A. Singarella May 24, 1920. Work was begun May 24, 1920, and completed June 15, 1920. It is a 60-foot street with a 10-foot artificial stone sidewalk on the west side, granite edgestone and granite block gutters and Topeka roadway. All the new materials were furnished by the contractor. The sidewalks were laid under a five-year maintenance guaranty.

**Olney street**, at Nos. 7 and 9. A contract for constructing artificial stone sidewalks at this location was awarded to Joseph A. Singarella May 24, 1920. Work was begun July 7, 1920, and completed July 10, 1920. The artificial stone sidewalk is 8 feet in width with granite edgestone and granite block gutters. The new corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The sidewalk was laid under a five-year maintenance guaranty.

**Providence street**, (north side), from Columbus avenue to Church street, is about 296 feet in length. A contract for constructing artificial stone sidewalks was awarded to Joseph A. Singarella September 22, 1920. The sidewalk on this street is 7 feet in width. The contractor reset the edgestone, removed the old artificial stone sidewalks and constructed a new artificial stone sidewalk on existing foundation. The contractor furnished all materials and hauled the surplus materials to the Massachusetts avenue lot. The sidewalks were laid under a five-year maintenance guaranty.

**St Albans road**, from Francis street to Huntington avenue, is about 681 feet in length. A contract for repairing the artificial stone sidewalk on this street was awarded to Joseph A. Singarella October 18, 1920. Work was begun October 14,

1920, and completed October 22, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone, granite block gutters and a macadam roadway. All materials used were furnished by the contractor. The sidewalk was laid under a five-year maintenance guaranty.

**Walk Hill street** (easterly side), from Hyde Park avenue to Wenham street, is about 244 feet in length. A contract for constructing artificial stone sidewalks in this street was awarded to John Kelly Company July 2, 1920. Work was begun July 6, 1920 and completed September 1, 1920. The edgestone was reset, gutters relaid and artificial stone sidewalks constructed about 8 feet in width. All materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Union Park street** (north side), from Washington street to Harrison avenue, is about 446 feet in length. A contract to repair the artificial stone sidewalks on this street was awarded to Joseph A. Singarella August 11, 1920. Work was begun August 12, 1920 and completed August 21, 1920. The contractor furnished and laid the sidewalk under a five-year maintenance guaranty. He furnished all the materials necessary to do the work.

#### MISCELLANEOUS.

**Ralston street** (north side), from Boston street about 85 feet easterly. A contract to construct a concrete retaining wall and fence was awarded to the Andrews Construction Company November 5, 1920. This wall replaced an old wooden bulkhead. The contractor furnished all material and labor.

#### ASSESSMENT STREETS.

**Albany street**, from Broadway to about 75 feet north of Troy street, is about 821 feet in length. A contract for paving this street with granite blocks and grout joints on a concrete base, was awarded to James Doherty September 29, 1920. Work was commenced September 15, 1920 and suspended December 17, 1920. This street is about 80 feet in width, with a roadway 54 feet in width and sidewalks 13 feet in width. The contractor did the excavating and filling and reset the edgestone. The roadway was paved with granite blocks with grout joints on a 6-inch Portland cement concrete base, under a five-year maintenance guaranty. Owing to the fact that the roadway was widened about 20 feet, the contractor furnished about 2,000 square yards of new granite blocks which were laid between Oneida street and Genesee street. The straight edgestone, circles and corners were furnished by the city on the line of work. Second-hand sidewalk bricks were furnished by the city at the Massachusetts avenue lot and

hauled by the contractor. All other materials were furnished by the contractor. The former surface of the street was granite blocks with pitch joints on a concrete base. Work will be resumed in the spring.

**Arbutus street**, from Blue Hill avenue to Irma street, is about 727 feet in length. A contract for constructing the surface of this street with a Topeka pavement was awarded to Martino DeMatteo October 11, 1920. Work was begun November 24, 1920 and suspended December 20, 1920. A part of the edgestone had been set and some of the filling had been furnished by the contractor when the work was suspended on account of cold weather. Work will be resumed in the spring.

**Archdale road**, from Washington street to South street, is about 446 feet in length. A contract for constructing the street with a Topeka pavement was awarded to Martino DeMatteo July 16, 1920. On account of the paving going on in Washington street, it was impossible to construct this street this year. Work will be started in the spring.

**Babcock street**, from Commonwealth avenue to Boston & Albany Railroad, is about 953 feet in length. A contract to construct this street was awarded to the Rowe Contracting Company May 27, 1920. Work was begun September 15, 1920 and suspended December 23, 1920. This is a 60-foot street with 10-foot artificial stone sidewalks and a 40-foot roadway. The street was subgraded, new edgestone was set and the roadway was paved with a Topeka pavement on a 4-inch Portland cement concrete base. The artificial stone sidewalks and driveways will be laid in the spring. The pavement and sidewalks are to be laid under a five-year maintenance guaranty. The city furnished the granite blocks for paving the brows to the car tracks, and the edgestone. All other materials were furnished by the contractor.

**Beech street**, from West Roxbury parkway to Anawan avenue, is about 158 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company July 6, 1920. Work was begun August 30, 1920 and suspended December 24, 1920. It is a 60-foot street with granite edgestone and a Topeka pavement, laid on a 6-inch concrete base and is to have artificial stone sidewalks 10 feet in width. The work is completed with the exception of laying the artificial stone sidewalks. The edgestone was furnished by the city on the line of work and all other materials were furnished by the contractor. The Topeka pavement was laid under a five-year maintenance guaranty. The work will be completed as early in the spring as weather conditions permit.

**Belgrade avenue**, from Anawan avenue to Centre street, is about 1,303 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company July 6, 1920. Work was begun July 6, 1920 and suspended December



24, 1920. It is a 70-foot street with granite edgestone and sidewalks 10 feet in width and a Topeka pavement, laid on a 6-inch concrete base with grout joints. The edgestone was set; about 90 per cent of the artificial stone sidewalks laid and Topeka pavement laid from railroad bridge to Anawan avenue. The concrete base for the Topeka was laid from the railroad bridge to Centre street this season. A part of the edgestone was reset, block gutters relaid and Topeka pavement laid on a macadam foundation from about 100 feet east of Belgrade street to Anawan avenue, a distance of about 600 feet. The street car location was paved by the Boston Elevated Railway Company with recut granite blocks on a 6-inch concrete base with grout joints, from about 100 feet east of Belgrade street to Centre street. The edgestone was furnished by the city on the line of work. All other materials were furnished by the contractor. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty. The work will be completed as early in the spring as weather conditions permit.

**Boylston street** (north side), from Tremont street to Charles street, is about 728 feet in length. A contract to widen this street was awarded to James Doherty June 16, 1920. Work was begun September 7, 1920 and completed October 16, 1920. The contractor excavated the old edgestone and reset it on the new line and where the bottom of the edgestone came close to the top of the subway, it was laid in a mortar bed. The widened portion of the roadway was subgraded and paved with wood blocks on a 6-inch concrete base and matched to fit the old pavement. A considerable area of the old roadway had to be repaved to conform to the grade of the widened portion. The city furnished all the new edgestone required and all other materials were furnished by the contractor. The wood blocks were laid under a five-year maintenance guaranty.

**Centre street**, from South street to Spring street, is about 6,331 feet in length. A contract for rough grading of this street was awarded to Antony Cefalo November 5, 1919. Work was begun November 7, 1919; suspended November 8, 1919; resumed April 8, 1920, and completed August 16, 1920. The work this year consisted in rough grading. A contract was awarded for constructing this street to the Rowe Contracting Company July 6, 1920. Work was begun July 9, 1920, and suspended December 24, 1920. It is an 80-foot street and is to have a granite edgestone and 10-foot artificial stone sidewalks. A Topeka pavement, laid on a 6-inch concrete base is to be constructed for the entire width of the roadway from Church street to Belgrade avenue and on each side of the street car location from Belgrade avenue to Spring street, with brows of granite blocks laid on a 6-inch concrete base with grout joints at car rails. The work this year has consisted of completing the street from South street to Belgrade avenue. Edge-

stones were set, artificial stone sidewalks constructed and street car tracks rebuilt and the location paved with recut blocks on a 6-inch concrete base with grout joints from Belgrade avenue to Willow street. The edgestones were set and artificial stone sidewalks constructed from Willow street to about 180 feet east of Corey street. The edgestones were set and the artificial stone sidewalk foundation placed on north side from 180 feet north of Corey street to Corey street. The edgestones were set and artificial stone sidewalks constructed from Corey street to 250 feet north of the railroad bridge. Filling has been placed and the street car tracks rebuilt and the location paved from railroad bridge to La Grange street. The edgestone was set and the artificial sidewalks placed on south side from entrance to Billings Field to Cottage avenue, and on the north side from La Grange street to Temple street. The straight edgestone was furnished by the city, a part on the line of work and a part hauled by the contractor. The circular edgestone was furnished by the city on the line of work. All other materials were furnished by the contractor. The Topeka pavement and the artificial stone sidewalks were laid under a five-year maintenance guaranty. The work will be resumed in the spring as early as weather conditions permit.

**Centre street**, at South street. (See "Asphalt Pavement.")

**Cummington street**, from Commonwealth avenue to Boston & Albany Railroad, is about 268 feet in length. A contract to construct this street was awarded to the Rowe Contracting Company May 27, 1920. Work was begun August 19, 1920, and suspended September 15, 1920. Practically no work has been done on this street but it will be built in the early spring. This street, when constructed, will vary in width from 40 feet to 45 feet with 7-foot artificial stone sidewalks and a roadway 31 feet wide. A fence is to be built across the end of the street. The roadway is to be paved with Topeka pavement on a 6-inch concrete base.

**Cushman road**, Brighton, from Dustin street to Glencoe street, is about 945 feet in length. A contract to construct this street was awarded to John J. Lane September 7, 1920. Work was begun August 19, 1920, and suspended September 29, 1920, on account of sewer operations. This street as constructed is 40 feet wide with 7-foot artificial stone sidewalks and a 26-foot roadway. The contractor did the excavating, set the edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation, and paved the roadway with sheet asphalt on a 4-inch concrete base. One block of the street has not been finished but will be finished in the spring. The city furnished the edgestone and all the other materials were furnished by the contractor. The pavement and sidewalks were laid under a five-year maintenance guaranty.

**Easton street**, Brighton, from North Harvard street to Mansfield street, is about 974 feet in length. A contract to

construct this street was awarded to John J. Lane September 7, 1920. Work was begun September 22, 1920, and completed November 9, 1920. This street as constructed is 40 feet wide with 7-foot artificial stone sidewalks and a 26-foot roadway. The contractor did the excavating, set the edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation and paved the roadway with sheet asphalt on a 4-inch concrete base. On the approaches to the street, asphalt was laid on the old macadam as a foundation. The city furnished the edgestone and all the other materials necessary to do the work were furnished by the contractor. The pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Elder street**, from Columbia road to Humphreys street, is about 847 feet in length. A contract for constructing this street was awarded to the Central Construction Company July 13, 1920. Work was begun July 22, 1920, and completed October 20, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone and a 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestones were furnished by the city on the line of work. All other materials were furnished by the contractor. The artificial stone sidewalks and the Topeka roadway were laid under a five-year maintenance guaranty.

**Falkland terrace**, Brighton, from Hobart street to Brooksdale road, is about 662 feet in length. A contract to construct this street was awarded to John J. Lane August 11, 1920. Work was begun August 19, 1920, and completed September 25, 1920. This street as constructed was 40 feet wide with a 7-foot sidewalk and 26-foot roadway. The contractor did the excavating, set the edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation and furnished and laid the Topeka pavement on a 4-inch concrete base. The city furnished the edgestone and granite blocks for headers. All other materials were furnished by the contractor, who laid the pavement under a five-year maintenance guaranty.

**Fargo street**, South Boston from B street to C street, is about 533 feet in length. A contract to repave the surface of this street was awarded to the B. E. Grant Company November 15, 1920. The work to be done was to reset the old granite block and bar them out, relay them on a 6-inch concrete base with grout joints, reset the edgestone and to lay brick sidewalks; also to relay the existing granite blocks in the C street intersection on a gravel base. Owing to the lateness of the season little work was done.

**Farquhar street**, from Selwyn street to Centre street, is about 938 feet in length. A contract to construct the street was awarded Martino De Matteo July 16, 1920. Work commenced August 16, 1920 and completed November 11, 1920. It is a 40-foot street with granite edgestone, artificial stone side-

walks 7 feet wide and has a Topeka pavement laid on a 4-inch concrete base. Tree spaces were left in sidewalks and the intersection of Selwyn street was laid with Topeka pavement on a macadam foundation. The straight edgestone and corners were furnished by the city and hauled by the contractor. The circular edgestone was furnished by the city on the line of work. All other materials were furnished by the contractor. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Glenville avenue**, Brighton, from Greylock road to Allston street, is about 1,009 feet in length. A contract to construct this street was awarded to John J. Lane September 7, 1920. Work was begun September 8, 1920 and suspended November 5, 1920. This street as constructed is 40 feet wide with 7-foot artificial stone sidewalks and a 26-foot roadway. The contractor did the excavating, set the edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation and paved the roadway with sheet asphalt on a 4-inch concrete base. The city furnished the edgestone and all other materials were furnished by the contractor. The pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Grosvenor place**, from Cliff street southwesterly, southeasterly and southwesterly, is about 281 feet in length. A contract for constructing this street was awarded to Joseph A. Singarella July 20, 1920 and completed December 6, 1920. The street is from 10 to 20 feet in width with artificial stone sidewalks from 1 foot to 3 feet in width, granite edgestone and a roadway paved with granite blocks, grout joints on a gravel base. A rubble retaining wall about 82 feet in length, with artificial stone cap and wooden fence was built on the southwesterly portion of the street. The edgestone and corners were furnished by the city on the line of work. The granite paving blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Hamlin street**, from East Eighth street to Columbia road, is about 266 feet in length. A contract for constructing the surface of this street was awarded to John T. Shea, Jr. August 20, 1920. Work was begun August 19, 1920 and completed September 29, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone and a 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestone and corners were furnished by the city on the line of work. All other new materials were furnished by the contractor on the line of work. The artificial stone sidewalks and Topeka roadway were laid under a five-year maintenance guaranty.

**Havelock street**, from Blue Hill avenue to Morton street is about 662 feet in length. A contract for constructing the

surface of this street was awarded to the Rowe Contracting Company May 12, 1920. Work was begun June 10, 1920, and completed July 28, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone and 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestone and corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The artificial stone sidewalks and the Topeka roadway were laid under a five-year maintenance guaranty.

**Harvard street**, from Fabyan street to beyond Brookview street, is about 652 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company September 29, 1919; suspended December 23, 1919; resumed April 13, 1920, and completed July 19, 1920. It is a 50-foot street and has a granite edgestone, 8-foot brick sidewalk on the west side and 8-foot artificial stone sidewalk on the east side and Topeka pavement laid on a 4-inch concrete base. The work this year consisted in completing the edgestone and constructing the sidewalks and roadway. The straight edgestone, corners and sidewalk bricks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks and Topeka pavement were laid under a five-year maintenance guaranty.

**Hyde Park avenue**, from Metropolitan avenue to River street, is about 5,454 feet in length. A contract for constructing this street was awarded to Martino De Matteo November 6, 1919. Work was begun November 10, 1919, and suspended January 8, 1920. Resumed March 29, 1920 and suspended December 20, 1920. It is a 70-foot street with granite edgestone, 10-foot artificial stone sidewalks, Topeka pavement on a 6-inch concrete base each side of street car location with recut granite block brows on a 6-inch concrete base, grout joints at rails. The edgestone was set and reset, artificial stone sidewalks constructed and a Topeka pavement laid on a 6-inch concrete base on west side from River street to West street. The 6-inch concrete base was also laid on the west side from West street, across Metropolitan avenue and on the east side from River street to beyond Thacher street. Work will be resumed as early in the spring as weather conditions permit. The corners and recut granite blocks were furnished by the city and hauled by the contractor. The straight edgestone and circular edgestone were furnished by the city on the line of work. All other materials were furnished by the contractor. The street car tracks were relocated and a double car track constructed by the Eastern Massachusetts Street Railway Company. A contract for paving the street car location was awarded to John McCourt Company October 8, 1920. Work was begun October 11, 1920, and completed November 19, 1920. This pavement is recut granite blocks on a 6-inch concrete

base with grout joints. The old granite blocks were furnished by the city and recut by the contractor. The contractor furnished all other materials. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**McCraw street**, from Belgrade avenue to West Roxbury Branch Railroad, is about 131 feet in length. A contract for constructing this street was awarded to Martino De Matteo July 16, 1920. Work was begun July 28, 1920, and completed November 2, 1920. It is a 40-foot street with granite edgestone, artificial stone sidewalks, 7 feet wide and has a Topeka pavement laid on a 4-inch macadam foundation. The existing edgestone and artificial stone sidewalks on the easterly side were found in good condition and allowed to remain. The remainder of the street was constructed under this contract. The edgestone was furnished by the city on the line of work. All other materials were furnished by the contractor. The Topeka and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**Public alley No. 710**, from East Brookline street to East Newton street, is about 372 feet in length. A contract to construct this alley was awarded to John Landis August 11, 1920. Work was begun August 5, 1920, and completed November 16, 1920. The contractor did the subgrading, set the edgestone and laid a 6-inch concrete base, hauled and laid the recut granite blocks with grout joints and sand bed. He furnished and laid an artificial stone sidewalk. Concrete retaining walls were constructed where the sidewalks were above the grade of the house yards. The city furnished the edgestone and paving blocks. All other materials were furnished by the contractor. The roadway and sidewalks were laid under a five-year maintenance guaranty.

**Public alley No. 818**, from St. Stephen street about 690 feet westerly. A contract for constructing the completion of this alley was awarded to John Landis August 11, 1920. Work on this alley was suspended previously on account of sewer construction. The contractor did the subgrading, set the edgestone and laid a 6-inch concrete base, hauled and laid the recut granite blocks with grout joints and sand bed and furnished and laid artificial stone sidewalks and where there was no sidewalk, backed the edgestone with concrete to the street line. The city furnished the edgestone and paving blocks. The contractor furnished all other materials required. The sidewalks and roadway were laid under a five-year maintenance guaranty.

**South street**, from Centre street about 270 feet easterly. A contract to construct this street with a sheet asphalt pavement was awarded to the Bermudez Company September 7, 1920. Work was begun September 20, 1920, and suspended December 29, 1920. The pavement consists of a binder and wearing surface upon a broken stone base. Most of the old

macadam was found at too low a grade and was brought up to the proper subgrade with new material. The roadway is completed. The artificial stone sidewalks remain to be done.

**Stuart street**, from Clarendon street to Trinity place, is about 268 feet in length. A contract to construct the surface of this street was awarded to Warren Brothers Company August 3, 1920. Work was begun July 30, 1920, and completed October 30, 1920. This street as built, is 80 feet wide with 20-foot sidewalks and a 40-foot roadway. The contractor did the excavating, set the edgestone, paved the roadway with bitulithic on a 6-inch concrete base and constructed artificial stone sidewalks on the outside and 10 feet of gravel walk on the inside. The artificial stone sidewalks were laid on a cinder foundation and these and the bitulithic pavement were laid under a five-year maintenance guaranty. The city furnished the edgestone and the paving blocks for paving the Clarendon street approaches. All other materials were furnished by the contractor.

**Tremont street** (westerly side), from Park street to Boylston street, is about 1,671 feet in length. A contract for widening this street was awarded to James Doherty June 16, 1920. Work was begun August 19, 1920, and completed October 11, 1920. The contractor excavated the old edgestone and reset it on the new line, making a roadway 43 feet wide. When the bottom of the edgestone came close to the top of the subway it was laid on a mortar bed. The widened portion of the roadway was paved with wood blocks on a 6-inch concrete base and matched to the old paving. A considerable portion of the old paving had to be repaved to conform to the grade of the newly widened portion. The wood block pavement was laid under a five-year maintenance guaranty. The city furnished the edgestone and all other materials were furnished by the contractor.

**Wilbur street**, from Cushing avenue to Upham avenue, is about 335 feet in length. A contract for constructing the surface of this street was awarded to the Central Construction Company July 13, 1920. Work commenced August 4, 1920, and completed October 25, 1920. It is a 30-foot street with 6-foot artificial stone sidewalks, granite edgestone and a 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestone and corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The artificial stone sidewalks and Topeka roadway were laid under five-year maintenance guaranty.

**Wilcock street**, from Blue Hill avenue to Morton street, is about 779 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company May 12, 1920. Work commenced May 19, 1920 and completed July 7, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone and a 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestone and corners were furnished by the city on the line of work. All other materials were

furnished by the contractor. The artificial stone sidewalks and Topeka roadway were laid under a five-year maintenance guaranty.

**Wollaston terrace**, from Woodrow avenue to Jones avenue, is about 313 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company May 12, 1920. Work commenced July 1, 1920 and completed July 29, 1920. It is a 25-foot street with 4-foot artificial stone sidewalks, granite edgestone and 2-inch Topeka roadway on a 4-inch cement concrete base. The edgestone and corners were furnished by the city on the line of work. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

**William Jackson avenue**, Brighton, from Chestnut Hill avenue to Academy Hill road, is about 500 feet in length. A contract to construct this street was awarded to John J. Lane September 7, 1920. This street as constructed is 25 feet wide with 4-foot sidewalks and a 17-foot roadway. Work started September 7, 1920, and was completed October 30, 1920. The contractor did the excavating, set the edgestone, furnished and laid the artificial stone sidewalks and paved the roadway with sheet asphalt on a 4-inch concrete base. The city furnished the edgestone. All other materials were furnished by the contractor. The pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

**York street**, from Glenway street to Greenwood street, is about 440 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company October 1, 1919. Work started October 31, 1919; suspended December 11, 1919, and resumed April 20, 1920, and completed April 24, 1920. It is a 40-foot street with 7-foot artificial stone sidewalks, granite edgestone and a 26-foot roadway paved with Topeka, having a 2-inch wearing surface on a 4-inch concrete base. The Topeka roadway and part of the artificial stone sidewalks were built in 1919. The rest of the work was completed this year. The Topeka roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.



## Work Done by Contract, 1920.

	Old.	New.	Total, Old and New.
Edgestone set.....	52,431 linear feet.	49,533 linear feet.	101,964 linear feet.
Crushed stone foundation for edgestone .....		7,615 " "	7,615 " "
Concrete base laid.....	18,201 square yards. 1	162,639 square yards.	180,840 square yards.
Granite block paving laid on gravel base with gravel joints.....	7,433 " "	2 1,425 " "	8,858 " "
New granite block paving laid with grout joints.....		3 14,771 " "	14,771 " "
Recut granite block paving laid with grout joints.....	1,390 " "	36,652 " "	348,042 " "
Second hand granite block paving laid with grout joints.....	4,874 " "	6 25,340 " "	30,214 " "
Granite digging crosswalk laid with grout joints.....	7 " "		7 " "
Sheet asphalt and binder laid.....		6 55,804 " "	55,804 " "
Bitulithic pavement laid.....	171 " "	7 12,120 " "	12,291 " "
Topeka pavement laid.....		8 57,619 " "	57,619 " "
Wood block pavement laid.....	9,415 " "	9 7,312 " "	16,727 " "
Bituminous patching, full depth.....			10 26,600 " "
Bituminous surface patching.....			11 2,011 " "
Bituminous surface patching, flush coat.....			11 3,954 " "
Bituminous patching, extra binder.....			211 cubic yards.
Macadam surface placed (tar penetration).....		12 4,326 square yards.	4,326 square yards.
Artificial stone sidewalks laid.....	3,672 " "	72,529 " "	11 76,201 " "

## Work Done by Contract, 1920.—Concluded.

	Old.	New.	Total. Old and New.
Brick sidewalks laid.....	12,088 square yards.	1,951 square yards.	14,039 square yards.
Gravel sidewalks laid.....	.....	3,556 " "	3,556 " "
Earth excavation.....	.....	32,098 cubic yards.	32,098 cubic yards.
Rock excavation.....	.....	467 " "	467 " "
Filling furnished.....	.....	7,854 " "	7,854 " "
Crushed stone furnished.....	.....	1,864 tons.	1,864 tons.
Loam furnished.....	.....	277 cubic yards.	277 cubic yards.
Loam graded and seeded.....	.....	647 square yards	647 square yards.
Old concrete base removed.....	.....	2,881 " "	2,881 " "
Covers, catch-basin frames and Bradley-heads set.....	.....	2,881 " "	761 " "
Concrete backing for edgestone.....	.....	.....	378 linear feet.
Track basin drain built.....	.....	.....	35 " "
Concrete backing laid.....	.....	.....	129 cubic yards.
Concrete walls built.....	.....	.....	213 linear feet.
Concrete walls built.....	.....	.....	71 cubic yards.
Concrete walls and fence built.....	.....	.....	406 linear feet.
Gravel shoulders placed.....	.....	.....	3,100 square yards.
Ground water drain built.....	.....	.....	450 linear feet.

## Explanations of Numerals on Preceding Pages.

1 Concrete base laid four (4) inches deep. Concrete base laid six (6) inches deep. Total concrete base laid.....	18,201 square yards. " " 18,201 square yards.	28,698 square yards. 133,941 " 162,639 square yards.
2 Second-hand granite blocks, formerly gravel. Second-hand granite blocks, formerly cobble gutters. Total granite block paving laid on gravel base with gravel joints (new).....	30 square yards. 1,395 " "	1,425 square yards.
3 Formerly macadam..... Formerly granite block paving gravel joints..... Formerly granite block paving pitch joints..... Total new granite block paving laid with grout joints.....	13,455 square yards. 190 " 1,526 " "	14,771 square yards.
4 Formerly gravel..... Formerly macadam..... Formerly granite block paving gravel joints..... Formerly granite block paving grout joints..... Formerly granite block paving pitch joints..... Total recent granite blocks, grout joints.....	3,486 square yards. 700 " 32,276 " 1,390 " 190 " "	38,042 square yards.
5 Formerly granite block paving gravel joints..... Formerly granite block paving pitch joints..... Total second-hand granite block paving with grout joints (new).....	14,901 square yards. 10,439 " "	25,340 square yards.
6 Formerly gravel..... Formerly macadam..... Formerly granite block paving gravel joints..... Total asphalt pavement laid (new).....	8,972 square yards. 21,276 " 25,556 " "	55,804 square yards.
7 Formerly gravel..... Formerly macadam..... Total bitulithic pavement laid (new).....	1,200 square yards. 10,920 " "	12,120 square yards.

## Explanations of Numerals on Preceding Pages.—Concluded.

<p>8 Formerly gravel.....</p> <p>Formerly macadam.....</p> <p>Total Topeka pavement laid (new).....</p>	<p>34,592 square yards. 23,027 "</p>	<p>57,619 square yards.</p>
<p>9 Formerly not graded.....</p> <p>Formerly asphalt pavement.....</p> <p>Formerly granite block paving gravel joints.....</p> <p>Formerly granite block paving pitch joints.....</p> <p>Total wood block pavement laid (new).....</p>	<p>1,544 square yards. 4,675 " 129 " 964 "</p>	<p>7,312 square yards.</p>
<p>10 Replacing asphalt.....</p> <p>Replacing bituminous concrete.....</p> <p>Total bituminous patching (full depth).....</p>	<p>22,005 square yards. 4,595 "</p>	<p>26,600 square yards.</p>
<p>11 Replacing asphalt.....</p> <p>Replacing bituminous concrete.....</p> <p>Total bituminous surface patching.....</p>	<p>2 square yards. 5,963 "</p>	<p>5,965 square yards.</p>
<p>12 Formerly water-bound macadam.....</p> <p>Formerly cobble gutters.....</p> <p>Total macadam tar penetration (new).....</p>	<p>3,076 square yards. 1,250 "</p>	<p>4,326 square yards.</p>
<p>13 Laid with foundation.....</p> <p>Laid on existing foundation.....</p> <p>Total artificial stone sidewalks laid.....</p>	<p>51,101 square yards. 25,100 "</p>	<p>76,201 square yards.</p>

## Work Done by Paving Service Forces During 1920.

	Old.	New.	Total. Old and New.
Edgestone set.	41,926 linear feet.	3,540 linear feet.	45,466 linear feet.
Concrete base laid.	573 square yards.	583 square yards.	1,156 square yards.
Roadway, granite block, gravel joints.	49,479 " "	" "	49,479 " "
Roadway, granite block, pitch and pebble.	840 " "	" "	840 " "
Roadway, granite block, grout joints.	19,663 " "	4,028 square yards.	23,691 " "
Gutter, granite block, gravel joints.	18,817 " "	520 " "	19,337 " "
Gutter, granite block, grout joints.	608 " "	461 " "	1,069 " "
Flagging crosswalk, gravel joints.	3,341 " "	77 " "	4,418 " "
Roadway, wood block, sand joints.	6,503 " "	67 " "	6,570 " "
Topsoil pavement.	492 " "	" "	492 " "
Water-bound macadam surface placed.	27,563 " "	11,067 " "	38,630 " "
Tar penetration macadam surface placed.	81,968 " "	1,484 square yards.	83,452 " "
Asphalt penetration macadam surface placed.	120,149 " "	2,577 " "	122,726 " "
Macadam surface patched.	374,359 " "	" "	374,359 " "
Asphalt blanket coat.	23,091 " "	" "	23,091 " "
Tar blanket coat.	143,240 " "	" "	143,240 " "
Brick sidewalks laid.	90,387 " "	229 square yards.	90,616 " "
Artificial stone sidewalks laid.	" "	5,554 " "	5,554 " "
Sidewalk excavating.	" "	513 cubic yards.	513 cubic yards.
Roadway excavating.	" "	" "	" "
Gravel or crushed stone sidewalks surfaced.	190,492 square yards.	" "	190,492 square yards.
Grading (no pavement laid).	" "	57 cubic yards.	57 cubic yards.
Rock excavating.	7,856 square yards.	" "	7,856 square yards.
Brick block pavement laid.	" "	" "	" "
Concrete roadway laid.	" "	" "	" "

## FINANCIAL STATEMENT, PAVING SERVICE.

*Maintenance.*

Appropriation . . . . .	\$1,605,884 15
Transferred from Lighting Service, . . . . .	\$766 30
Transferred from Sewer Service . . . . .	4,055 55
Transferred from Street Cleaning and Oiling Service . . . . .	1,962 07
	<hr/> 6,783 92
	<hr/> \$1,612,668 07
Transferred to Ferry Service . . . . .	23,026 97
	<hr/> \$1,589,641 10
Expended during the year . . . . .	<u>1,589,641 10</u>

*Special Appropriation.*

Granolithic sidewalks:	
Balance February 1, 1920 . . . . .	\$3,684 16
Appropriation (from taxes) . . . . .	50,000 00
	<hr/> \$53,684 16
Expended during the year . . . . .	<u>53,684 16</u>

*Reconstructing and Repairing Streets by Contract.*

Balance February 1, 1920 . . . . .	\$374,387 51
Appropriation from taxes . . . . .	750,000 00
	<hr/> \$1,124,387 51
Expended during the year . . . . .	<hr/> 942,637 65
Balance January 31, 1921 . . . . .	<u>\$181,749 86</u>

*Street Improvements.*

Balance February 1, 1920 . . . . .	\$27,225 99
Appropriation from taxes . . . . .	250,000 00
Appropriation from reserve fund . . . . .	50,000 00
	<hr/> \$327,225 99
Expended during the year . . . . .	<u>327,225 99</u>

*Summary of Expenditures.*

Paving Service . . . . .	\$1,589,641 10
Highways, making of . . . . .	533,630 43
Belgrade avenue extension and Beech street widening . . . . .	9,963 06
	<hr/> \$2,133,234 59
Carried forward . . . . .	

<i>Brought forward</i> . . . . .	\$2,133,234 59
Hyde Park avenue widening . . . . .	49,511 97
Granolithic sidewalks . . . . .	53,684 16
Reconstructing and repairing street by con- tract . . . . .	942,637 65
Street improvements . . . . .	327,225 99
Total . . . . .	<u>\$3,506,294 36</u>

## INCOME

Statement showing the amount of bills and cash deposited with the City Collector from February 1, 1920, to January 31, 1921, and credited to general revenue:

Edgestone and sidewalk assessments . . . . .	\$42,739 64
Permits . . . . .	28,139 41
Services of inspectors . . . . .	3,309 00
Labor, material furnished, junk sold, rents, etc., . . . . .	8,170 98
	<u>\$82,359 03</u>

Amount paid into the city treasury during the year:

Edgestone and sidewalk assessments . . . . .	\$27,841 39
Permits . . . . .	29,050 54
Services of inspectors . . . . .	2,804 50
Labor, material furnished, junk sold, rents, etc., . . . . .	10,988 80
	<u>\$70,685 23</u>

Objects of Expenditures from the Various Appropriations, Classified by Districts, from February 1, 1920, to January 31, 1921.

Districts.	Macadam Repairs.	Paved Street Repairs.	Removal of Snow.	Street Cleaning.	Edgestone and Sidewalk Repairs.	Crosswalk Repairs.	Street Work.	Schedule A, Miscellaneous.	Totals.
South Boston and Dorchester North.....	\$2,621 63	\$3,000 18	\$13,757 72	\$6,282 61	\$10,451 47	\$192 12	\$109,628 82	.....	\$145,934 55
East Boston and Breed's Island.....	6,715 94	2,055 17	8,099 67	2,329 11	9,217 17	374 02	46,793 80	.....	77,581 88
Charlestown.....	4,101 17	3,634 60	17,345 37	2,148 47	9,507 88	914 29	199,588 36	.....	237,240 04
Brighton.....	15,966 37	68 80	10,631 76	15,109 40	2,165 17	215 29	199,196 27	.....	243,353 06
West Roxbury.....	24,558 89	231 04	14,899 63	17,068 04	2,861 04	23 14	451,550 01	.....	511,191 79
Dorchester.....	12,737 61	1,711 85	15,782 76	13,276 97	7,779 29	12 00	174,941 98	.....	226,242 46
Roxbury South and Jamaica Plain.....	25,550 90	4,139 13	29,294 62	44,582 98	17,608 80	603 82	120,261 15	.....	242,041 40
South End and Roxbury North.....	12,482 67	4,487 13	191,278 71	5,932 45	24,941 04	1,741 90	359,585 19	.....	600,452 09
Ashmont.....	24,329 22	608 92	7,763 93	8,090 67	3,129 54	92 99	95,550 21	.....	139,565 48
North and West Ends and Back Bay.....	5,703 41	20,375 91	252,538 85	3,642 88	13,273 91	2,753 36	146,380 29	.....	444,668 61
Hyde Park.....	14,194 35	82 52	4,915 49	6,693 85	4,641 49	.....	120,937 70	.....	151,465 40
Miscellaneous.....	.....	.....	.....	.....	.....	.....	*90,075 84	\$396,478 76	486,554 60
Totals.....	\$148,962 16	\$40,395 25	\$566,308 51	\$125,157 43	\$105,576 80	\$6,925 83	\$2,116,489 62	\$396,478 76	\$3,506,294 36

\* \$7,362.50, artificial stone sidewalks and rebates; \$81,820.59, asphalt and bitulithic road repairs; \$892.75, expert services, charged to Reconstructing and Repairing Streets by Contract.



## SCHEDULE A.

Salary of division engineer (part of)	\$3,750 00	
Salary of engineer in charge (part of)	500 00	
Salaries of office clerks and stenographers	5,785 46	
Salaries of assistant engineers (office work)	5,654 74	
Salaries of permit office clerks	10,592 98	
Salaries of permit office inspectors	13,604 04	
Salaries of engineering inspectors (office work)	7,498 38	
Salaries of engineering inspectors tallying traffic,	461 47	
Salaries of district inspectors	2,901 88	
Salaries of street numbering clerks	1,560 89	
Salary of medical inspector (part of)	333 33	
Medical attendance on injured employees (out-		
side)	113 50	
Salary of chief veterinarian (part of)	308 33	
Salary of veterinarian (part of)	266 67	
Salary of inspector of horses	1,378 92	
Salary of constable and inspector	1,959 73	
Pensions paid to veterans of Civil War (retired)	8,401 69	
Pensions paid to retired laborers	26,897 40	
Compensation allowed injured employees	1,958 93	
Allowance to employees on military and naval		
service and state guard	234 56	
Vacations allowed laborers, mechanics, etc.	34,385 13	
Holidays, not including holidays charged to street		
accounts	64,883 69	
Automobile expense, division engineer	3,505 42	
Gasolene, oil, grease, etc.	\$508 30	
Repairs	783 82	
New tires and tubes	523 86	
Repairing tires and tubes	1 50	
Supplies, etc.	64 94	
Miscellaneous	10 00	
Winter top	260 00	
Wages of chauffeur	1,353 00	
Automobile expense, engineer in charge		2,180 70
Gasolene, oil, grease, etc.	332 61	
Repairs	339 39	
New tires and tubes	135 01	
Repairing tires and tubes	41 95	
Supplies, etc.	66 74	
Miscellaneous	16 00	
Wages of chauffeur	1,249 00	
Automobile expense, chief inspector		2,163 16
Gasolene, oil, grease, etc.	241 79	
Repairs	192 45	
New tubes and tires	149 35	
<i>Carried forward</i>		\$201,281 00

<i>Brought forward</i> . . . . .		\$201,281 00
Storage . . . . .	180 00	
Supplies, etc. . . . .	12 57	
Miscellaneous . . . . .	10 00	
Wages of chauffeur . . . . .	1,377 00	
Automobile expense, foreman Brighton district . . . . .		2,245 39
Gasolene, oil, grease, etc. . . . .	387 08	
Repairs . . . . .	39 68	
New tires and tubes . . . . .	122 51	
Repairing tires and tubes . . . . .	5 25	
Supplies, etc. . . . .	75 37	
Miscellaneous . . . . .	17 85	
Wages of chauffeur . . . . .	1,297 65	
Ford runabout, net cost . . . . .	300 00	
Automobile expense, foreman Dorchester district, . . . . .		442 77
Gasolene, oil, grease, etc. . . . .	202 77	
Repairs . . . . .	50 08	
New tires and tubes . . . . .	55 81	
Repairing tires and tubes . . . . .	8 25	
Supplies, etc. . . . .	115 86	
Miscellaneous . . . . .	10 00	
Automobile expense, foreman Roxbury district, . . . . .		1,047 34
Gasolene, oil, grease, etc. . . . .	156 48	
Repairs . . . . .	13 70	
New tires and tubes . . . . .	168 67	
Repairing tires and tubes . . . . .	16 00	
Supplies, etc. . . . .	122 49	
Miscellaneous . . . . .	20 00	
Ford runabout . . . . .	550 00	
Automobile expense, emergency car . . . . .		781 39
Gasolene, oil, grease, etc. . . . .	338 64	
Repairs . . . . .	131 03	
New tires and tubes . . . . .	191 60	
Repairing tires and tubes . . . . .	3 50	
Supplies . . . . .	105 10	
Miscellaneous . . . . .	11 52	
Automobile expense, truck, Brighton district. . . . .		9 70
Gasolene, oil, grease, etc. . . . .	7 70	
Miscellaneous . . . . .	2 00	
Printing . . . . .		4,867 91
Postage . . . . .		374 24
Stationery . . . . .		1,081 99
Traveling expenses, car fares, etc. . . . .		1,110 21
Advertising . . . . .		32 00
Engineering supplies and incidentals . . . . .		2,140 50
Stationery . . . . .	806 26	
Printing . . . . .	812 68	
Postage . . . . .	54 10	
Transit repairs . . . . .	112 75	
Miscellaneous . . . . .	354 71	
<i>Carried forward</i> . . . . .		\$215,414 44

<i>Brought forward</i> . . . . .	\$215,414 44
Supplies for laboratory . . . . .	107 92
Artificial stone sidewalks, new and repairs by department force (see reconstructing and repairing streets by contract and street improvements.) . . . . .	6,177 47
Asphalt and bitulithic pavement repairs. Tem- porary repairs, labor, teaming and mate- rials (see, also, reconstructing and repairing streets by contract and street improvements),	1,800 30
Brick block repairs, labor, teaming and materials,	6,366 44
Wood block repairs, labor, teaming and materials,	10,127 29
New crosswalk, not included elsewhere . . . . .	429 13
Fence repairs . . . . .	5,489 50
Plankwalk repairs . . . . .	1,461 36
Edgestones, sidewalks and gutters (new) not included elsewhere . . . . .	5,074 93
Rent of land, wharves, etc., (net) . . . . .	2,624 00
Horses . . . . .	375 00
Expense of stables, including dri- vers, feeders, fodder, horse- shoeing, repairs to harnesses, wagons, carts, etc. . . . .	\$186,192 14
Amount earned by department teams . . . . .	157,543 01
	<hr/>
	28,649 13
Electric lighting at yards and stables . . . . .	1,350 32
Gas lighting at yards and stables . . . . .	193 94
Fuel for heating yard buildings, offices and stables,	2,805 78
Electrical appliances, labor and materials, yard and stables . . . . .	111 19
Rent of towels . . . . .	151 80
Stoves, pipes, grates, etc. . . . .	251 31
Telephone service . . . . .	1,807 36
Derricks, repairing, etc. . . . .	148 55
Oil for lighting around defects, etc. . . . .	1,695 80
Ice . . . . .	145 84
Signs, making and putting up . . . . .	12,654 21
Tools, hardware, etc., new, cost of repairing, etc. . .	24,922 02
"Cletrac" tractors, three . . . . .	5,130 00
Expenses of yards, including salaries of foreman, clerks, yardmen, watchmen, tool wagons, etc. . . . .	38,549 14
Repairs of yard buildings, stables, sheds, shanties, etc. . . . .	9,258 56
Sanding icy and slippery streets . . . . .	1,978 48
Repairing culverts and building new culverts . . .	133 54
Hoisting engine, fuel and supplies . . . . .	155 12
Uniforms, boots, shoes, etc. . . . .	229 34
	<hr/>
<i>Carried forward</i> . . . . .	\$385,769 21

<i>Brought forward</i> . . . . .			\$385,769	21
Chests for Central Office, making of, etc. . . . .			83	61
Repairing fences at snow dumps . . . . .			153	55
Repairing Mt. Washington avenue snow dump . . . . .			643	00
Premiums on surety bonds . . . . .			9	00
Marking catch basins . . . . .			512	10
Trimming and removing trees . . . . .			58	50
Expert services, asphalt plant . . . . .			135	00
Repairs to and inspection of typewriters . . . . .			53	00
Expressage and freight . . . . .			182	84
Miscellaneous . . . . .			767	80
Work done and materials furnished individuals, corporations, etc. . . . .			1,697	12
Park Department, work done and materials furnished . . . . .			60	00
Schoolhouse Department, work done and materials furnished . . . . .			560	00
Water Service, work done and materials furnished, . . . . .			535	52
Street Cleaning and Oiling Service, work done and materials furnished . . . . .			83	92
Sanitary Service, work done and materials furnished . . . . .			9,438	89
Sewer Service, work done and materials furnished, . . . . .			2,914	85
Lighting Service, work done and materials furnished . . . . .			13	80
Asphalt plant operating, Brighton district . . . . .	\$17,128	11		
Less material used on streets . . . . .	11,133	25		
			5,994	86
Asphalt plant operating, Dorchester district . . . . .	\$19,336	38		
Less materials used on streets . . . . .	16,139	63		
			3,196	75
			\$412,863	32
Steam rollers, cost of operating, repairs, etc. . . . .	\$22,861	01		
Steam rollers, amount earned . . . . .	23,044	00		
			\$182	99
Stock materials . . . . .	\$138,294	37		
Stock handling and teaming . . . . .	43,911	82		
	\$182,206	19		
Less stock delivered on streets . . . . .	198,407	76		
			16,201	57
			16,384	56
Total . . . . .			\$396,478	76

## SPECIAL APPROPRIATIONS.

*Belgrade avenue extension and Beech street*, widening. Continuation of work from 1919. (Work unfinished.) part of cost for year 1920 charged to the appropriation for Highways, making of. For details of cost of work done in the year 1920, see appropriation for Highways, making of.

*Hyde Park avenue*, widening. Continuation of work from 1919. (Work unfinished.) Part of cost of work done in 1920, charged to the appropriation for Highways, making of. For details of cost of work done in the year 1920, see appropriation for Highways, making of.

## GRANOLITHIC SIDEWALK CONSTRUCTION.

*Abbot street*, in front of Nos. 2, 4, 6 and 26. (Work done in 1919.)

Engineering . . . . .	\$2 77	
Cost of work done under contract with Frank		
Drinkwater in 1919-20 . . . . .	\$643 20	
Amount paid in 1919-20 . . . . .	456 32	
	<hr/>	
	186 88	
		<hr/>
		\$189 65

\**Ashfield street*, from Walter street to Fairview street. Length, 791 linear feet. Area, 9,619 square feet. Edgestone set and reset, granite block gutters laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$186 81	
Inspection . . . . .	148 06	
Engineering expense . . . . .	2 20	
Advertising . . . . .	1 75	
Blocks, 20,200 old granite . . . . .	604 00	
Edgestone, 1,378 feet 7 inches straight, 9 feet		
5 inches circular and 19 small corners . . . . .	2,767 31	
Amount paid to John Kelly Company, under contract:		
Removing trees, bushes, etc. . . . .	\$3 00	
1,344 linear feet straight edge-stone set @ 25c. . . . .	336 00	
64 linear feet circular edge-stone set @ 25c. . . . .	16 00	
33 linear feet existing edge-stone reset @ 25c. . . . .	8 25	
385 linear feet crushed stone and concrete foundation furnished and placed @ 35c. . . . .	134 75	
530 square yards granite block paving hauled and laid, gravel joints, @ \$1.30 . . . . .	689 00	
15 square yards existing granite block paving relaid, gravel joints, @ 75c. . . . .	11 25	
9,739 square feet artificial stone foundation furnished and placed @ 5c. . . . .	779 12	
	<hr/>	
<i>Carried forward</i> . . . . .	\$1,977 37	\$3,710 13

\* Done in connection with Congreve, Hastings and Walk Hill streets.

<i>Brought forward</i> . . . . .	\$1,977 37	\$3,710 13
9,029 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 29c. . . . .	2,618 41	
590 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 45c. . . . .	265 50	
2 covers reset @ \$3 . . . .	6 00	
2 Bradley head catch basins reset @ \$5 . . . . .	10 00	
Extra work — Construct driveways not shown on plan. . . . .		
1 day, paver @ \$9 . . . . .	9 00	
1 day labor @ \$5.60 . . . .	5 60	
Plus 15 per cent on \$14.60, . .	2 19	
	<hr/>	4,894 07
		<u>\$8,604 20</u>

\* *Ashmont street* (north side), from 186 feet west of Neponset avenue to Train street. Length, 844 linear feet. Area, 6,438 square feet. Edgestone reset and artificial stone sidewalks constructed.

Engineering . . . . .	\$141 98
Inspection . . . . .	123 30
Engineering expense . . . . .	1 50
Advertising . . . . .	6 80
Edgestone . . . . .	12 40

Amount paid to Joseph A. Singarella, under contract:

8 linear feet circular edg - stone set @ 44c. . . . .	\$3 52
861 linear feet existing edge- stone reset @ 44c. . . . .	374 44
659 linear feet crushed stone and concrete founda- tion furnished and placed @ 50c. . . . .	329 50
289 square yards existing granite block paving relaid, gravel joints @ \$1. . . . .	289 00
1,540 square feet artificial stone foundation furnished and placed @ 5c. . . . .	77 00
6,359 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . .	1,780 52
79 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 28c. . . . .	22 12
1 cover reset @ \$3 . . . . .	3 00

<i>Carried forward</i> . . . . .	\$2,879 10	\$291 98
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\* Done in connection with Neponset avenue and Olney street.

<i>Brought forward</i>	\$2,879 10	\$291 98	
1 course of brickwork laid			
@ 50c.	50		
Remove tree from side-			
walk in front of 546			
Ashmont street	15 00		
	<hr/>	2,894 60	
			<u>\$3,186 58</u>

*Beech street*, from West Roxbury parkway to Hobson street. (Work done in 1919.)

Engineering		\$47 68	
Cost of work done under contract with Frank			
Drinkwater in 1919-20	\$4,438 36		
Amount paid in 1919-20	3,759 18		
	<hr/>	679 18	
			<u>\$726 86</u>

*Blakerville street*, from Bowdoin street to Olney street. (Work not started.)

Engineering		\$56 62	
Engineering expense		1 60	
		<hr/>	<u>\$58 22</u>

*Blue Hill avenue* (east side), from Tremont street, 170 feet south. (Work done in 1919.)

Engineering		\$49 00	
Engineering expense		2 80	
		<hr/>	<u>\$51 80</u>

*Bowdoin avenue*, in front of Nos. 64 and 66. Edgestone reset and artificial stone sidewalks constructed.

Inspection		\$30 68	
Amount paid to Joseph A. Singarella:			
97 feet edgestone set and reset			
@ 50c.	\$48 50		
32 square yards gutter paved			
@ \$1.50	48 00		
728 square feet artificial stone			
sidewalks constructed @			
34c.	247 52		
	<hr/>	344 02	
			<u>\$374 70</u>

*Broadway* (south side), from Washington street to Shawmut avenue. Length, 408 linear feet. Area, 3,174 square feet. Artificial stone sidewalks repaired.

Engineering	\$511 00	
Inspection	61 36	
Engineering expense	40	

Amount paid to Pignat Vicenzi Mosaic Company, Inc., under contract:

3,174 square feet artificial stone			
sidewalks furnished and			
and laid @ 24c.	\$761 76		
Less amount drawn but			
not collected	114 26		
	<hr/>	\$647 50	
			<u>\$714 37</u>

\* *Brooks street*, from Hobart street to Faneuil street. Length, 1,132 linear feet. Area, 13,975 square feet. Edgestone set, granite block gutters relaid and artificial stone sidewalks constructed.

Engineering . . . . .	\$355 01
Inspection . . . . .	249 82
Engineering expense . . . . .	13 70
Advertising . . . . .	3 38
Edgestone, 1,917 feet straight, 43 feet circular, 1 large and 4 small corners. . . . .	3,445 62
Amount paid to Piazuolo and Alfieri, under contract:	
1,913 linear feet straight edge- stone set @ 35c. . . . .	\$669 55
100 linear feet circular edge- stone set @ 35c. . . . .	35 00
67 linear feet existing edge- stone reset @ 35c. . . . .	23 45
759 square yards existing granite block paving relaid, gravel joints @ 9c. . . . .	743 82
13,975 square feet artificial stone foundation fur- nished and placed @ 0c. . . . .	838 50
13,317 square feet artificial stone sidewalks, con- crete base and wear- ing surface furnished and laid @ * 25 $\frac{3}{4}$ c. . . . .	3,429 13
658 square feet artificial stone driveways, con- crete base and wearing surface furnished and laid @ 30c. . . . .	197 40
5 covers reset @ \$3 . . . . .	15 00
109 cubic yards loam fur- nished @ \$3 . . . . .	327 00
513 square yards loam graded and seeded @. \$130 . . . . .	666 90
Extra work — Remove stumps and roots from sidewalks and break out joints edgestone where directed:	
10 hours, stonecutter @ \$1.25 . . . . .	12 50
12 hours, labor @ 70c. . . . .	8 40
Plus 15 per cent on \$20.90 . . . . .	3 14
	<hr/>
	6,969 79
	<hr/>
	<u>\$11,037 32</u>

† *Congreve street*, from South street to Centre street. Length, 1,422 linear feet. Area, 17,509 square feet. Edgestone reset, granite block gutters relaid and artificial stone sidewalks constructed.

Engineering . . . . .	\$126 47
Inspection . . . . .	204 76
<i>Carried forward</i> . . . . .	<hr/>
	\$331 23

\* Done in connection with Linden street.

† Done in connection with Ashfield, Hastings and Walk Hill streets.



<i>Brought forward</i> . . . . .	\$331 23
Engineering expense . . . . .	1 60
Advertising . . . . .	1 75
Edgestone, small corners . . . . .	72 00

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\$406 58

Credit: 42 feet old edgestone and 200 old blocks . . . . .	71 20
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\$335 38

Amount paid to John Kelly Company, under contract:

Removing trees, bushes, etc. . . . .	\$3 00
51 linear feet circular edgestone and corners set @ 25c. . . . .	12 75
2,704 linear feet existing edgestone reset @ 25c. . . . .	676 00
725 linear feet crushed stone and concrete foundation furnished and placed @ 35c. . . . .	253 75
944 square yards existing granite block paving relaid, gravel joints, @ 75c. . . . .	708 00
18,043 square feet artificial stone foundation furnished and placed @ 8c. . . . .	1,443 44
16,578 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 29c. . . . .	4,807 62
931 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 45c. . . . .	418 95
2 covers reset @ \$3 . . . . .	6 00
Extra work — Construct driveways not shown on plan:	
1 day, edgestone setter, @ \$9 . . . . .	9 00
1 day, stonecutter, @ \$8 . . . . .	8 00
2 days' labor @ \$5.60 . . . . .	11 20
Plus 15 per cent on \$28.20, . . . . .	4 23

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8,361 94

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\* \$8,697 32

*Euclid street*, from Washington street to Wentworth street. (Work not started.)

Engineering . . . . .	\$23 00
Engineering expense . . . . .	90

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\$23 90

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\* \$245.19 of this amount charged to Street Improvements.

*Faulkner street*, Dorchester. Edgestone set and artificial stone sidewalk constructed.

Amount paid to Boston Elevated Railway Company, 501 feet artificial stone sidewalk @ 12c. . . . .	\$60 12	
72 feet 7 inches edgestone @ \$1 . . . . .	72 70	
		<u>\$132 82</u>

*Gray street*, from Berkeley street to Clarendon street. (Work done in 1919.)

Engineering expense . . . . .	<u>\$0 30</u>
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\* *Hastings street*, from Centre street to Montview street. Length, 1,127 linear feet. Area, 14,164 square feet. Edgestone set and reset, granite block gutters relaid and artificial stone sidewalks constructed.

Engineering . . . . .	\$126 24	
Inspection . . . . .	184 08	
Engineering expense . . . . .	2 45	
Advertising . . . . .	1 75	
Blocks, 28,225 old granite . . . . .	846 75	
Edgestone, 2,069 feet straight, 9 feet 5 inches circular and 28 small corners . . . . .	4,084 07	
Teaming . . . . .	429 00	
Amount paid to John Kelly Company, under contract:		
Removing trees, bushes, etc. . . . .	\$3 00	
2,026 linear feet straight edgestone set @ 25c. . . . .	506 50	
105 linear feet circular edgestone and corners set @ 25c. . . . .	26 25	
7 linear feet existing edgestone reset @ 25c. . . . .	1 75	
1,116 linear feet crushed stone and concrete foundation furnished and placed, @ 35c. . . . .	390 60	
740 square yards granite block paving hauled and laid, gravel joints, @ \$1.30 . . . . .	962 00	
4 square yards existing granite block paving relaid, gravel joints, @ 75c. . . . .	3 00	
14,164 square feet artificial stone foundation furnished and placed @ 8c. . . . .	1,133 12	
13,425 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 29c. . . . .	3,893 25	
743 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 45c. . . . .	334 35	

<i>Carried forward</i> . . . . .	\$7,253 82	<u>\$5,674 34</u>
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\* Done in connection with Ashfield, Congreve and Walk Hill streets.

<i>Brought forward</i>	\$7,253 82	\$5,674 34
3 covers reset @ \$3	9 00	
Extra work — Break out old concrete at Police Station on Hastings street to allow construction to proper grade:		
2 days' labor @ \$5.60	11 20	
Plus 15 per cent on \$11.20,	1 68	
	<hr/>	7,275 70
		<hr/> <u>*\$12,950 04</u>

† *Linden street*, from Brighton avenue to Commonwealth avenue. Length, 491 linear feet. Area, 5,355 square feet. Edgestone set, granite block gutters relaid and artificial stone sidewalks constructed.

Engineering	\$161 21	
Inspection	87 66	
Engineering expense	1 60	
Advertising	3 37	
Edgestone, 741 feet 5 inches straight, 4 small corners	1,273 02	
Amount paid to Piazuolo & Alfieri, under contract:		
1 cubic yard rock excavation @ \$10	\$10 00	
550 linear feet straight edgestone set @ 35c.	192 50	
233 linear feet circular edgestone set @ 35c.	81 55	
275 square yards existing granite block paving relaid, gravel joints, @ 98c.	269 50	
4,947 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 26c.	1,286 22	
408 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 30c.	122 40	
Extra work — Remove stumps and roots from sidewalks and break out joints edgestone where directed:		
13 hours, stonemason, @ \$1.25	16 25	
Plus 15 per cent on \$16.25	2 44	
	<hr/>	1,980 86
		<hr/> <u>\$3,507 72</u>

‡ *Judson street*, from Brookford street to Julian street. (Work not started.)

Engineering	<u>\$5 00</u>
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‡ *Neponset avenue* (west side), in front of Nos. 3 to 15 and 9 to 35. Length, 651 linear feet. Area, 4,740 square feet. Edgestone reset and artificial stone sidewalks constructed.

\* Amount paid out of Street Improvements, \$1,110.93; Paving Service, \$441.

† Done in connection with Brooks street.

‡ Done in connection with Ashmont street and Olney street.

Engineering . . . . .		\$52 75	
Inspection . . . . .		61 36	
Engineering expense . . . . .		20	
Amount paid to Joseph A. Singarella, under contract:			
568 linear feet existing edge-stone reset @ 44c. . . . .	\$249 92		
189 square yards existing granite block paving re-laid, gravel joints, @ \$1 . . . . .	189 00		
1,833 square feet artificial stone foundation furnished and placed @ 5c. . . . .	91 65		
4,462 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . . .	1,249 36		
278 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 28c. . . . .	77 84		
1 cover reset @ \$3 . . . . .	3 00		
2 courses of brickwork laid @ 50c. . . . .	1 00		
		1,861 77	
			<u>\$1,976 08</u>

\* *Olney street* (north side), in front of Nos. 7 and 9. Length, 71 linear feet. Area, 528 square feet. Edgestone reset and artificial stone sidewalks constructed.

Engineering . . . . .		\$4 76	
Inspection . . . . .		6 57	
Edgestone . . . . .		6 00	
Amount paid to Joseph A. Singarella, under contract:			
6 linear feet circular edgestone set @ 44c. . . . .	\$2 64		
21 linear feet existing edgestone reset @ 44c. . . . .	9 24		
528 square feet artificial stone foundation furnished and placed @ 5c. . . . .	26 40		
462 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . . .	129 36		
56 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . . .	18 48		
Extra work — Remove existing edgestone and put in new driveway at Nos. 7 and 9:			
4 hours' labor @ 65c. . . . .	2 60		
Plus 15 per cent on \$2.60 . . . . .	39		
1 hour, double team, @ \$1 . . . . .	1 00		
		190 11	
			<u>\$207 44</u>

\* Done in connection with Ashmont street and Neponset avenue.

\* *Pearl street*, from Dorchester avenue to Pleasant street. (Work done in 1919.)

Engineering . . . . .	\$4 77		
Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$2,564 46		
Amount paid in 1919 . . . . .	<u>2,147 82</u>	416 64	<u>\$421 41</u>

\* *Pleasant street* (east side), from Victoria street 100 feet northerly. (Work done in 1919.)

Engineering . . . . .	\$2 76		
Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$230 00		
Amount paid in 1919 . . . . .	<u>195 50</u>	34 50	<u>\$37 26</u>

\* *Rockwell street*, from Washington street to Milton avenue. (Work done in 1919.)

Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$2,361 76		
Amount paid in 1919 . . . . .	<u>1,850 79</u>		<u>\$510 97</u>

\* *Rosseter street*, from No. 20 to Bullard street. (Work done in 1919.)

Engineering . . . . .	\$2 49		
Teaming . . . . .	13 50		
Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$3,031 75		
Amount paid in 1919 . . . . .	<u>2,357 69</u>	674 06	<u>\$690 05</u>

\* *Victoria street* (north side), from Pleasant street 200 feet easterly. (Work done in 1919.)

Engineering . . . . .	\$2 77		
Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$433 85		
Amount paid in 1919 . . . . .	<u>368 77</u>	65 08	<u>\$67 85</u>

\* *Wales street*, from Blue Hill avenue to Harvard street. (Work done in 1919.)

Engineering . . . . .	\$2 49		
Cost of work done under contract with Frank Drinkwater in 1919 . . . . .	\$2,777 45		
Amount paid in 1919 . . . . .	<u>2,209 28</u>	568 17	<u>\$570 66</u>

\* Done in connection with Pearl, Pleasant, Rockwell, Rosseter, Wales, Abbot and Victoria streets.

- \* *Walk Hill street* (east side), from Hyde Park avenue to Wenham street.  
Length, 244 linear feet. Area, 1,829 square feet. Edgestone reset,  
granite block gutters relaid and artificial stone sidewalks constructed.

Engineering . . . . .	\$24 55	
Advertising . . . . .	1 75	
Amount paid to John Kelly Company, under contract:		
Removing trees, bushes, etc. . . . .	\$1 00	
3 linear feet straight edge-stone set @ 25c. . . . .	75	
128 linear feet existing edge-stone reset @ 25c. . . . .	32 00	
46 square yards existing granite block paving relaid, gravel joints, @ 75c. . . . .	34 50	
1,829 square feet artificial stone foundation furnished and placed @ 8c. . . . .	146 32	
1,829 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 29c. . . . .	530 41	
Extra work — Remove buried stumps on Walk Hill street:		
1 day's labor @ \$5.60 . . . . .	5 60	
Plus 15 per cent on \$5.60, . . . . .	84	
		751 42†
		<u>\$777 72</u>

## RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.

- Adams street*, from King street to Minot street. (Work not started.)

Engineering . . . . .	\$383 37	
Engineering expense . . . . .	11 00	
		<u>\$394 37</u>

- Amory street*, from Green street to 140 feet north of Atherton street. (Work done in 1919.)

Engineering . . . . .	\$21 50	
Teaming . . . . .	5 37	
Cost of work done under contract with the Central Construction Company in 1919 . . . . .	\$24,849 02	
Amount paid in 1919 . . . . .	20,213 13	
		4,635 89
		<u>\$4,662 76</u>

- Arlington street*, from Market street across Leicester street. Length, 475 linear feet. Area, 1,850 square yards. Edgestone set, artificial stone sidewalks constructed. Roadway not started. (Unfinished.)

Engineering . . . . .	\$246 71	
Inspection . . . . .	71 59	

*Carried forward* . . . . . \$318 30

\* Done in connection with Ashfield, Congreve and Hastings streets.

† Eight-eight dollars of this amount paid out of street improvements.

<i>Brought forward</i>		\$318 30	
Engineering expense		1 90	
Advertising		7 70	
Blocks		20 40	
Bricks, 13,500 old		202 50	
Edgestone, 291 feet straight, 47 feet circular and 4 small corners		722 83	
Lumber		15 00	
Amount paid to Simpson Brothers Corpora- tion, under contract:			
295 linear feet straight edge- stone set @ 35c.	\$103 25		
33 linear feet circular edge- stone set @ 40c.	13 20		
110 linear feet existing edge- stone reset @ 30c.	33 00		
412 linear feet crushed stone and concrete founda- tion furnished and placed @ 35c.	144 20		
6,363 square feet artificial stone foundation furnished and placed @ 6c.	381 78		
6,011 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 26c.	1,562 86		
352 square feet artificial stone driveways, concrete base and wearing sur- face, furnished and laid @ 33c.	116 16		
	<u>\$2,354 45</u>		
Less 15 per cent retained,	353 17		
		<u>2,001 28</u>	
			<u>\$3,289 91</u>
<i>Artificial stone sidewalks.</i>			
Rebates allowed		\$6,887 16	
Repairs		475 34	
			<u>\$7,362 50</u>
<i>Asphalt and bitulithic pavements repaired. Bituminous pavements upon which the maintenance has expired.</i>			
Engineering		\$4,228 63	
Inspection		3,634 82	
Engineering expense		176 95	
Advertising		12 80	
Blocks		70 20	
Bricks		90 00	
Final payment to Central Construction Com- pany under contract made in 1919.		8,960 60	
Amount paid to the Bermudez Company, under contract:			
26,469.93 square yards bitumi- nous wearing surface and binder fur- nished and laid @ \$2.20			
<i>Carried forward</i>	\$58,233 85	\$17,174 00	

<i>Brought forward</i> . . . . .	\$58,233 85	\$17,174 00
2,010.82 square yards bituminous pavement resurfaced @ \$1.62 . . . . .	3,257 53	
210.82 cubic yards extra bituminous binder furnished and laid @ \$14 . . . . .	2,951 48	
1,493.37 square yards concrete base furnished and laid @ \$3.50 . . . . .	5,226 80	
74 covers reset @ \$3 . . . . .	222 00	
Extra work — Double flush coat on Dartmouth, Marlborough and Berkeley streets:		
3,954.14 square yards double flush coat @ 20c. . . . .	790 83	
	<hr/>	
	\$70,682 49	
Less 5 per cent retained . . . . .	3,534 12	
	<hr/>	
	\$67,148 37	
Less amount charged to sewerage works . . . . .	2,501 78	
	<hr/>	
	64,646 59	
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		<u>\$81,820 59</u>

*Atlantic avenue*, from South Market to Commercial street. (Work done in 1918 and 1919.)

Engineering . . . . . \$12 00

*Beacon street*, from Massachusetts avenue to Raleigh street. Length, 1,455 linear feet. Area, 7,467 square yards. Edgestone reset, wood block pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$551 55
Inspection . . . . .	1,683 08
Engineering expense . . . . .	44 54
Analysis of soil . . . . .	59 00
Templets . . . . .	22 50
Edgestone . . . . .	18 80
Lumber . . . . .	12 18
Teaming . . . . .	3 50
Photographs . . . . .	20 00
	<hr/>
	\$2,415 15
Credit: Sidewalk bricks. . . . .	785 38
	<hr/>
	\$1,629 77

Amount paid to James Doherty, under contract:

153 cubic yards earth excavation for tree pits @ \$1.71 . . . . .	\$261 63
886 square yards existing concrete base excavated and removed @ 55c. . . . .	487 30
16 linear feet circular edgestone set @ 35c. . . . .	5 60
	<hr/>
<i>Carried forward</i> . . . . .	\$754 53
	<hr/>
	\$1,629 77



<i>Brought forward</i> . . . . .	\$754 53	\$1,629 17
2,613 linear feet existing edge-stone reset @ 21c. . . . .	548 73	
684 cubic yards concrete base furnished and laid @ \$10.00 . . . . .	6,840 00	
28 square yards existing granite block paving relaid, gravel joints @ 75c. . . . .	21 00	
15 square yards existing granite block paving relaid, grout joints @ \$1.39 . . . . .	20 85	
7,276 square yards wood block pavement furnished and laid @ \$4.17 . . . . .	30,340 92	
191 square yards existing wood block pavement taken up, cleaned, stored and piled and relaid in dummy of car track where directed @ 95c. . . . .	181 45	
122 square yards existing brick sidewalks relaid @ 40c. . . . .	48 40	
23,434 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 21c. . . . .	4,921 14	
10 covers reset @ \$3 . . . . .	30 00	
10 Bradley-head catch-basins reset @ \$5 . . . . .	50 00	
2 courses of brick work laid @ 50c. . . . .	1 00	
147 cubic yards loam furnished and placed in tree pits @ \$2 . . . . .	294 00	
Extra work — Chip existing concrete base where directed:		
49 hours, foreman, @ 87½c., . . . . .	42 88	
538½ hours' labor @ 62½c. . . . .	336 56	
Plus 15 per cent on \$379.44 . . . . .	56 92	
24½ hours, double team @ \$1.25 . . . . .	30 63	
Extra work — Furnish and lay new wood block pavement in dummy of car tracks at intersection of Beacon street and Massachusetts avenue.		
336 square yards wood block pavement furnished and laid in dummy of car tracks @ 80c. . . . .	268 80	
	<hr/>	
		44,788 21
		<hr/>
		\$46,417 98

*Beacon street and Chestnut Hill avenue, from Brookline line to Newton line (Cleveland circle). (Work not started.)*

Engineering . . . . .	<u>\$411 38</u>
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*Bennington street, from Central square to Day square. (Work done in 1919.)*

Engineering . . . . .	\$3 40	
Engineering expense . . . . .	32 50	
Photographs . . . . .	20 00	
Cost of work done under contract with McGuire & McGourty Inc., in 1919, \$38,474 49		
Amount paid in 1919 . . . . .	<u>32,669 74</u>	<u>5,804 75</u>
		<u>\$5,860 65</u>

*Berkeley street, from Columbus avenue to Providence street. (Work not started.)*

Engineering . . . . .	\$179 20	
Engineering expense . . . . .	<u>1 80</u>	<u>\$181 00</u>

*Blackstone street, from Clinton street to Haymarket square. Length, 1,115 linear feet. Area, 5,516 square yards. Edgestone set and reset, granite block pavement relaid and artificial stone sidewalks constructed.*

Engineering . . . . .	\$1,142 03
Inspection . . . . .	409 39
Engineering expense . . . . .	1 70
Advertising . . . . .	6 75
Blocks, 72,728 old granite . . . . .	2,149 84
Edgestone . . . . .	88 67
Amount paid to Coleman Brothers Inc., under contract:	

35.7 square yards existing concrete base excavated and removed @ \$2 . . . . .	\$71 40
10 square yards existing concrete base chipped and removed @ \$2 . . . . .	20 00
468 linear feet straight edge- stone set @ 75c. . . . .	35 10
1,161 linear feet existing edge- stone reset @ 60c. . . . .	696 60
788.5 square yards concrete base furnished and laid @ \$16 . . . . .	12,616 00
2,442.4 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, sand bed and grout joints, @ \$2.50 . . . . .	6,103 00
3,073.8 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.25 . . . . .	<u>6,916 05</u>

<i>Carried forward . . . . .</i>	<u>\$26,461 15</u>	<u>\$3,798 38</u>
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<i>Brought forward</i> . . . . .	\$26,461 15	\$3,798 38	
18 square yards existing brick sidewalks relaid @ \$1 . . . . .	18 00		
9,513.3 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 20c. . . . .	1,902 66		
18 covers reset @ \$3 . . . . .	54 00		
27 courses of brick work laid @ 50c. . . . .	13 50		
Extra work — Cut sewer sheathing and dress granite flagging sidewalks, where directed. . . . .			
29 hours' labor @ 65c. . . . .	18 85		
40 hours, stonecutter, @ \$1.15 . . . . .	46 00		
Plus 15 per cent on \$64.85 . . . . .	9 73		
4 bags cement @ \$1.25 . . . . .	5 00		
	<hr/>	28,528 89	
			<u>\$32,327 27</u>
<i>Border street, from North Ferry to Central square. (Work not started.)</i>			
Engineering . . . . .			<u>\$245 10</u>
<i>Bowdoin street, from Mt. Ida road to Topliff street. (Work not started.)</i>			
Engineering . . . . .			<u>\$19 00</u>
<i>Boylston street, from Amory street to Centre street. (Work not started.)</i>			
Engineering . . . . .	\$503 45		
Engineering expense . . . . .	9 10		
	<hr/>		<u>\$512 55</u>
<i>Cambridge street, city proper, from North Russell street to Charles street. (Work done in 1919.)</i>			
Engineering . . . . .			<u>\$9 00</u>
<i>Cambridge street, Brighton, from Brighton avenue to Henshaw street. (Work done in 1919.)</i>			
Engineering . . . . .	\$12 43		
Engineering expense . . . . .	30		
	<hr/>		<u>\$12 73</u>
<i>Centre street, from Columbus avenue to Hyde square. (Work not started.)</i>			
Engineering . . . . .	\$307 67		
Engineering expense . . . . .	12 40		
	<hr/>		<u>\$320 07</u>
<i>Centre street, from Eliot street across Allandale street. (Work done in 1919.)</i>			
Engineering . . . . .	\$186 91		
Labor . . . . .	4 00		
	<hr/>		<u>\$190 91</u>

\* *Centre street*, from Allandale street to South street. Length, 6,502 linear feet. Area, 17,084 square yards. Filling, edgestone reset, sheet asphalt pavement laid, retaining wall constructed and artificial stone sidewalks constructed. (Unfinished.)

Engineering . . . . .	\$1,629 73
Inspection . . . . .	320 53
Engineering expense . . . . .	16 95
Advertising . . . . .	7 25
Labor, employees, building culvert . . . . .	776 40

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	\$2,750 86
Credit: Blocks, old granite . . . . .	19 26
	<hr/>
	\$2,731 60

Amount paid to Bermudez Company, under contract:

1,242 cubic yards gravel filling furnished @ \$2.50 . . . . .	\$3,105 00	
675 tons crushed stone furnished, placed, watered and rolled @ \$4 . . . . .	2,700 00	
377 linear feet straight edgestone set @ 45c. . . . .	169 65	
225 linear feet existing edgestone reset @ 40c. . . . .	90 00	
143 square yards existing granite block paving taken up, hauled and relaid in hips or bows, gravel joints, @ \$2 . . . . .	286 00	
2,354 square yards shoulders graded, shaped, watered and rolled, @ 45c., . . . . .	1,059 30	
16,836 square yards bituminous concrete binder and asphalt wearing surface furnished and laid on macadam foundation @ \$2.89 . . . . .	48,656 04	
1,531 square feet artificial stone foundation furnished and laid @ 12c. . . . .	183 72	
Furnishing all materials and constructing wall and fence . . . . .	7,700 00	
	<hr/>	
	\$63,949 71	
Less 5 per cent retained, . . . . .	3,197 49	
	<hr/>	
	\$60,752 22	
Less amount charged to Highways, Making of, . . . . .	7,150 46	
	<hr/>	
	53,601 76	
	<hr/>	
		†\$56,333 36

*Chambers street*, from Green street to Cambridge. (Work not started.)

Engineering . . . . .	<u>\$195 72</u>
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\* Done in connection with South street.

† See Highways, Making of.

*Charles street*, from Fruit street to Allen street. Length, 670 linear feet.  
Area, 2,427 square yards. Edgestone reset, wood block pavement  
laid, brick sidewalks relaid and artificial stone sidewalks constructed.

Engineering . . . . .	\$246 81
Inspection . . . . .	339 82
Engineering expense . . . . .	2 30
Advertising . . . . .	6 30
Services of expert analyzing, etc. . . . .	241 90
Edgestone . . . . .	40 30
Blocks . . . . .	29 33

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\$906 76

Credit: Bricks, old sidewalk . . . . .	\$20 00
Blocks, old granite . . . . .	419 00

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439 00

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\$467 76

Amount paid to John McCourt Company,  
under contract:

301 square yards old concrete base excavated and removed @ 7.00 . . . . .	\$225 75
391 square yards old concrete base chipped and removed, @ \$1 . . . . .	391 00
19 linear feet circular edge- stone set @ 50c. . . . .	9 50
1,358 linear feet existing edge- stone reset @ 40c. . . . .	543 20
188 cubic yards concrete base furnished and laid @ \$12 . . . . .	2,256 00
121 square yards existing granite block paving relaid, grout joints, @ \$2 . . . . .	242 00
2,427 square yards wood block pavement furnished and laid @ \$5.40 . . . . .	13,105 80
1,209 square yards existing brick sidewalks relaid @ 55c., . . . . .	664 95
6,367 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid @ 35c. . . . .	2,228 45
787 square feet artificial stone driveways, concrete base and wearing sur- face, furnished and laid @ 40c. . . . .	314 80
9 covers reset @ \$3 . . . . .	27 00
8 courses of brickwork laid @ 50c. . . . .	4 00

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20,012 45

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\$20,480 21

*Columbia road*, from Hancock street to Blue Hill avenue. (Work not  
started.)

Engineering . . . . .	<u>\$35 20</u>
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*Columbus avenue*, from Roxbury street to Heath street. (Work not started.)

Engineering . . . . .	\$183 17	
Engineering expense . . . . .	5 70	
		<u>\$188 87</u>

*Commercial street*, from Fleet street to Hanover street. (Work done in 1918 and 1919.)

Engineering . . . . .		<u>\$12 00</u>
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*Commercial street*, from Hanover street to Causeway street. (Work done in 1918 and 1919.)

Engineering . . . . .		<u>\$24 00</u>
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*Conant street*, from Huntington avenue to Parker street. (Work done in 1919.)

Cost of work done under contract with the Bermudez Company, in 1919 . . . . .	\$8,124 47	
Amount paid in 1919 . . . . .	6,502 97	
		<u>\$1,621 50</u>

\* *Devonshire street*, from Water street to Franklin street. Length, 730 linear feet. Area, 2,248 square yards. Wood block pavement laid.

Engineering . . . . .	\$349 18
Inspection . . . . .	628 21
Engineering expense . . . . .	1 60
Advertising . . . . .	3 25
Blocks granite . . . . .	44 00
Edgestone . . . . .	7 91
Expert services, analysis of blocks . . . . .	64 35

Amount paid to James Doherty, under contract:

381 square yards existing concrete base excavated and removed @ 70c. . . . .	\$266 70
296 square yards existing concrete base chipped and removed @ 70c. . . . .	207 20
3 linear feet circular edgestone set @ 39c. . . . .	1 17
292 cubic yards concrete base furnished and laid @ \$11 . . . . .	3,212 00
43 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	43 00
513 square yards existing granite block paving relaid, grout joints, @ \$1.84 . . . . .	943 92
2,248 square yards wood block paving furnished and laid @ \$5.19 . . . . .	11,667 12
3 covers reset @ \$3 . . . . .	9 00

\$16,350 11  
2,452 52

Less 15 per cent retained,

13,897 59

\$14,996 09

\* Done in connection with Washington street. (Beach-Kneeland streets.)

*Dorchester avenue*, from Park street to Peabody square. (Work not started.)

Engineering . . . . .	\$262 79	
Engineering expense . . . . .	10	
		<u>\$262 89</u>

*Dorchester avenue*, from Andrew square to Savin Hill avenue. (Work done in 1918 and 1919.)

Engineering . . . . .	<u>\$62 43</u>
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*Dorchester avenue*, from Summer street to Dorchester Avenue Bridge. (Work not started.)

Engineering expense . . . . .	<u>\$5 60</u>
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*Dorchester avenue*, from Dorchester Avenue Bridge to West Second street. Length, 749 linear feet. Area, 4,236 square yards. Edgestone reset, second-hand granite block pavement laid with grout joints on concrete base and brick sidewalks relaid.

Engineering . . . . .	\$612 98
Inspection . . . . .	582 97
Engineering expense . . . . .	1 40
Advertising . . . . .	13 70
Blocks: 32,180 old granite . . . . .	965 40
Bricks: 24,200 old sidewalk . . . . .	363 00
Edgestone . . . . .	29 06
Teaming . . . . .	4 00

Amount paid to John Kelly Company, under contract:

Excavating and removing the paving materials, paving and filling, at and near abandoned approach to Atlantic Avenue Bridge . . .

\$400 00

17 linear feet circular edgestone set @ 30c. . .

5 10

1,449 linear feet existing edgestone reset @ 39c. . .

565 11

1,087 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, concrete base, sand bed and grout joints, @ \$4.15 . . .

4,511 05

2,349 square yards existing granite block paving taken up, cleaned, piled and relaid, concrete base, sand bed and grout joints, @ \$4 . .

9,396 00

800 square yards existing granite block paving taken up, cleaned, piled and relaid, concrete base, sand bed and grout joints (unfinished), @ \$1.80 . .

1,440 00

<i>Carried forward</i> . . . . .	\$16,317 26	<u>\$2,572 45</u>
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<i>Brought forward</i>	\$16,317 26	\$2,572 45
162 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$2 20	356 40	
92 square yards brick sidewalks laid, @ 60c.	55 20	
1,092 square yards existing brick sidewalks relaid @ 40c.	436 80	
14 covers reset @ \$3	42 00	
7 courses of brick work laid @ 50c.	3 50	
Extra work — Remove foundation of approach to abandoned Atlantic Avenue Bridge and remove existing concrete base where directed:		
532 hours' labor @ 70c.	372 40	
Plus 15 per cent on \$372.40	55 86	
27 hours, double team, @ \$1.50	40 50	
16 hours, auto truck, @ \$4.	64 00	
Extra work — Load and haul sidewalk brick from the Chestnut Hill paving yard instead of from the Massachusetts avenue lot:		
19,500 brick loaded and hauled from the Chestnut Hill Avenue Paving Yard @ \$5.30 per M.	103 35	
	<hr/>	
	\$17,847 27	
Less 15 per cent retained,	<hr/> 2,677 09	
		<hr/>
		15,170 18
		<hr/>
		\$17,742 69

*Dorchester street*, from West Broadway to West Eighth street. (Work not started.)

Engineering . . . . . \$90 02

*Dudley street*, from Alexander street to Stoughton street. Length, 1,400 linear feet. Area, 5,941 square yards. Edgestone set, granite block paving laid and relaid, artificial stone sidewalks and driveways constructed.

Engineering . . . . .	\$851 06
Inspection . . . . .	877 12
Engineering expense . . . . .	42 57
Advertising . . . . .	6 30
Templets. . . . .	21 90
Edgestone . . . . .	14 17
Teaming . . . . .	4 00
Blocks, 14,163 old granite . . . . .	415 26
	<hr/>
<i>Carried forward</i> . . . . .	\$2 232 38



<i>Brought forward</i> . . . . .	\$2,232 38	
Credit: Bricks, old sidewalk . . . . .	433 20	
	<hr/>	
	\$1,799 18	
Amount paid to DeStefano Brothers, under contract:		
47 linear feet circular edge-stone set @ 60c. . . . .	\$28 20	
1,610 linear feet existing edge-stone reset @ 35c. . . . .	563 50	
62 square yards existing granite block paving relaid, gravel joints, @ \$1.50 . . . . .	93 00	
855 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, concrete base, sand bed and grout joints, @ \$4.50, . . . . .	3,847 50	
5,085 square yards existing granite block paving taken up, cleaned, piled and relaid, concrete base, sand bed and grout joints, @ \$4.40 . . . . .	22,374 00	
30 square yards brick sidewalks relaid @ 75c. . . . .	22 50	
16,600 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 33c. . . . .	5,478 00	
126 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 60c. . . . .	75 60	
2 square feet covers reset @ \$3 . . . . .	6 00	
4 square feet courses of brickwork laid @ 50c. . . . .	2 00	
Extra work — Recut blocks to connect with 4-inch work of Columbia road and clean the pitch and pebbles from blocks furnished by the city from Massachusetts avenue lot:		
32 hours' labor @ 65c. . . . .	20 80	
Plus 15 per cent on \$20.80, . . . . .	3 12	
Section 1, Article E. Overhaul:		
77 tons blocks hauled from East Fifth street lot (instead of Massachusetts avenue lot), 1½ miles overhaul at 1¼c. per ton per half mile . . . . .	25 41	
<i>Carried forward</i> . . . . .	<hr/> \$32,539 63	<hr/> \$1,799 18

<i>Brought forward</i>	\$32,539 63	\$1,799 18
12 tons blocks hauled from Centre street, near Montclair street (in- stead of Massachusetts avenue lot) 5-mile over- haul at 11c. per ton per half mile	13 20	
	<u>\$32,552 83</u>	
Less 5 per cent retained,	<u>1,627 54</u>	
		<u>30,925 19</u>
		<u><u>\$32,724 37</u></u>

*Expert Services.*

Services of expert examining different kinds of smooth pave- ments and making report thereon	<u>\$892 75</u>
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<i>East Broadway</i> , from Dorchester street to L street. (Work done in 1919.)	
Photographs	<u>\$12 00</u>

<i>East First street</i> , from H street across Summer street. (Work done in 1919.)	
Engineering	\$17 00
Engineering expense	30
	<u>\$17 30</u>

*East and West Newton street.* (Work done in 1919.)

Engineering expense	<u>\$0 30</u>
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*East Fourth street*, from K street across P street. Length, 2,813 linear feet.  
Area, 12,082 square yards. Wood block pavement laid. Unfinished  
work from 1919. Roadway between the tracks paved with old granite  
blocks with grout joints by city forces. Work completed May 29, 1920.

Engineering	\$400 20
Inspection	365 01
Engineering expense	19 20
Expert services analyzing blocks, etc.	780 25
Photographs	16 00
Labor, excavating roadway	349 67
Labor, paving and grouting	659 00
Blocks: 20,250 old granite	607 50
Sand: 77 cubic yards	169 31
Cement: 123 barrels	387 34
Crushed stone	17 55
Teaming	336 50
Telegrams	6 95

Amount paid to John E. Quinn, under con-  
tract:

318 linear feet circular edge- stone set @ 35c.	\$111 30
5,766 linear feet existing edge- stone reset @ 20c.	1,153 20
47 square yards existing granite block paving relaid, gravel joints, @ \$1.20	56 40

<i>Carried forward</i>	<u>\$1,320 90</u>	<u>\$4,114 48</u>
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<i>Brought forward</i> . . . . .	\$1,320 90	\$1,114 48
455 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$3.35 . . . .	1,524 25	
8,629 square yards wood block pavement furnished and laid, concrete base, mortar bed, etc., @ \$5.61 . . . . .	48,408 69	
637 square yards wood block pavement furnished and laid (unfinished) @ \$1. . . . .	637 00	
321 square yards existing brick sidewalks relaid @ 50c. . . . .	160 50	
40,701 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 22c. . . . .	8,954 22	
677 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 35c. . . . .	236 95	
5 covers reset @ \$3. . . . .	15 00	
2 courses of brick work laid @ 50c. . . . .	1 00	
Section 1, Article E. Overhaul:		
674 tons block hauled to Massachusetts avenue lot (instead of East Fifth street lot), 2 miles overhaul at 11c. per ton per half mile . .	296 56	
Extra work — Remove tree near L street:		
Removing tree and stump . . . . .	100 00	
Extra work — Recut existing granite paving blocks for roadway and dummy paving where directed:		
15,885 paving blocks recut @ \$15 per M. . . . .	238 28	
	<hr/>	
	\$61,893 35	
Amount paid in 1919. . . . .	51,291 45	
	<hr/>	
	10,601 90	
	<hr/>	\$14,716 38

*Federal street*, from Milk street to Dewey square. Length, 1,293 linear feet. Area, 4,524 square yards. Wood block and granite block pavement laid.

Engineering . . . . .	\$137 85
Inspection . . . . .	326 80
Engineering expense . . . . .	2 65
Expert services, analyzing blocks, etc. . . . .	145 58
Edgestone . . . . .	3 03
Blocks, recut granite . . . . .	38 40
Photographs . . . . .	16 00

Amount paid to James Doherty, under contract:

100 cubic yards gravel filling furnished @ \$1. . . . .	\$100 00	
92 linear feet existing edgestone reset @ 25c. . . . .	\$23 00	
733 cubic yards concrete base furnished and laid @ \$9.75 . . . . .	7,146 75	
418 square yards existing granite block paving relaid, gravel joints, @ 75c. . . . .	313 50	
3,020 square yards existing granite block paving recut and relaid, sand bed and grout joints, @ \$1.83 . . . . .	5,526 60	
1,244 square yards existing granite block paving relaid, sand bed and grout joints, @ \$1.40 . . . . .	1,741 60	
1,504 square yards wood block pavement furnished and laid @ \$4.41 . . . . .	6,632 64	
15 covers reset @ \$3 . . . . .	45 00	
Extra work — Load and haul to Massachusetts avenue lot, old paving blocks in Channing street, from Federal street to Congress street:		
521 square yards old paving blocks loaded and hauled to Massachusetts avenue lot, @ 50c. . . . .	260 50	
Extra work — Relay brick sidewalks where directed in Channing street:		
60 square yards brick sidewalks relaid @ 40c. . . . .	24 00	
	<hr/>	
	\$21,813 59	
Less amount paid in 1919, . . . . .	14,625 33	
	<hr/>	
	7,188 26	
		<hr/>
		\$7,858 57

*Exeter street*, from Boylston street to Commonwealth avenue. (Work done in 1919.)

Engineering expense . . . . . \$0 30

*Franklin street*, from 60 feet west of Devonshire street to Broad street. Length, 820 linear feet. Area, 3,740 square yards. Granite block pavement relaid, grout joints.

Engineering . . . . .	\$479 83
Inspection . . . . .	463 22
Engineering expense . . . . .	2 05
Advertising . . . . .	6 80
Blocks, old granite, . . . . .	313 00

Amount paid to James Doherty, under contract:

232 square yards existing concrete base excavated and removed @ 75c. . . . .	\$174 00	
203 cubic yards concrete base furnished and laid @ \$11.50 . . . . .	2,334 50	
284 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	284 00	
461 square yards granite block paving hauled and laid, sand bed, grout joints, @ \$2.17 . . . . .	1,000 37	
3,279 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$1.99 . . . . .	6,525 21	
7 square yards existing flagging crosswalks relaid, grout joints, @ \$2.24 . . . . .	15 68	
13 covers reset @ \$3 . . . . .	39 00	
Extra work — Omit the relaying of flagging crosswalks where shown on plan and haul granite block to replace same and haul granite block paving to replace abandoned south track of Boston Elevated Railway, between Devonshire street and Federal street:		
373 hours labor, @ 65c. . . . .	242 45	
Plus 15 per cent on \$242.45, . . . . .	36 37	
123 hours, double team, @ \$1.37½ . . . . .	169 13	
	<hr/>	10,820 71
		<hr/> <u>\$12,085 61</u>

*Friend street*, from Union street to Causeway street. Length, 1,789 linear feet. Area, 5,240 square yards. Edgestone reset, granite block paving laid and relaid, artificial stone sidewalks laid.

Engineering . . . . .	\$717 46
Inspection . . . . .	154 50
Engineering expense . . . . .	7 55
Advertising . . . . .	2 34
Blocks, 10,000 recut granite . . . . .	360 00
Edgestone, 66 feet circular . . . . .	175 56

*Carried forward* . . . . . \$1,417 41

<i>Brought forward</i>		\$1,417 41
Amount paid to B. E. Grant Company, under contract:		
985 linear feet existing edge-stone reset @ 30c.	\$295 50	
332 cubic yards concrete base, furnished and laid @ \$14 . . . . .	4,648 00	
88 square yards existing granite block paving relaid, gravel joints, @ \$1.50 . . . . .	132 00	
194 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, sand bed and grout joints, @ \$2.65 . . . . .	514 10	
1,783 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.25 . . . . .	4,011 75	
4,569 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . . .	1,279 32	
11 covers reset @ \$3 . . . . .	33 00	
22 courses of brickwork laid @ 50c. . . . .	11 00	
	<hr/>	
	\$10,924 67	
Less 15 per cent retained,	1,638 70	
	<hr/>	
	9,285 97	
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		<u>\$10,703 38</u>

*Green street*, from Washington street across Call street. Length, 888 linear feet. Area, 2,725 square yards. Edgestone reset, Topeka pavement laid and artificial stone sidewalks laid. (Unfinished work from 1919.)

Engineering . . . . .	\$125 96
Inspection . . . . .	59 17
Amount paid to Central Construction Company, under contract:	
49 linear feet circular edge-stone set @ 35c. . . . .	\$17 15
1,616 linear feet existing edge-stone reset @ 23c. . . . .	371 68
122 linear feet existing granite block paving relaid, gravel joints, @ \$1 . . . . .	122 00
39 square yards existing granite block paving relaid in driveways and edgings, concrete base, sand bed, grout joints, @ \$3.25 . . . . .	126 75
120 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$1.30 . . . . .	156 00
	<hr/>
<i>Carried forward</i> . . . . .	\$1,193 58
	<hr/>
	\$185 13

<i>Brought forward</i> . . . . .	\$1,193 58	\$185 13	
2,810 square yards concrete base and Topeks wear- ing surface furnished and laid @ \$3.75 . . . . .	10,537 50		
23 square yards existing brick sidewalks relaid @ 50c. . . . .	11 50		
8,452 square feet artificial stone sidewalks, concrete base and wearing sur- face furnished and laid @ 21c. . . . .	1,774 92		
3 covers reset . . . . .	9 00		
4 courses of brickwork laid @ 50c. . . . .	2 00		
	<hr/>		
	\$13,128 50		
Amount paid in 1919 . . . . .	9,162 19		
	<hr/>	3,966 31	
		<hr/>	<u>\$4,151 44</u>

*Green street*, from Call street to Centre street. Length, 1,992 linear feet.  
Area, 5,900 square yards. (Work not started.)

Engineering . . . . .	\$187 46	
Engineering expense . . . . .	6 30	
Advertising . . . . .	3 65	
	<hr/>	<u>\$197 41</u>

*Greenwich street*, from Westminster street to Warwick street. (Work done  
in 1919.)

Engineering expense . . . . .	\$0 15	
<i>Guild row</i> . (Work not started.)		
Engineering . . . . .	\$8 00	
Engineering expense . . . . .	80	
	<hr/>	<u>\$8 80</u>

*Humboldt avenue*, from Walnut avenue to Seaver street. (Work not  
started.)

Engineering . . . . .	\$933 85	
Engineering expense . . . . .	17 00	
	<hr/>	<u>\$950 85</u>

*Huntington avenue*, at Jamaica way. Length, 150 linear feet. Area, 485  
square yards. Bitulithic pavement furnished and laid.

Amount paid to Warren Brothers Company, under contract:			
43½ tons crushed stone fur- nished and placed @ \$3.50 . . . . .	\$151 38		
485 square yards macadam foundation furnished and placed @ 46c. . . . .	223 10		
485 square yards bitulithic pavement furnished and laid @ \$2.37 . . . . .	1,149 45		
	<hr/>	\$1,523 93	
		<hr/>	<u>\$1,523 93</u>

*John Eliot square.* (Work not started.)

Engineering . . . . .	\$342 35	
Engineering expense . . . . .	6 80	
		<u>\$349 15</u>

*Kilby street, from State street to Milk street.* (Work done in 1919.)

Photographs . . . . .		<u>\$12 00</u>
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*La Grange street, from Washington street to Tremont street.* (Work not started.)

Engineering . . . . .		<u>\$87 80</u>
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*Main street, from City square, across Alford street. Length, 5,690 linear feet. Area, 30,685 square yards. Edgestone reset, recut granite block pavement laid and artificial stone sidewalks constructed.* (Unfinished work from 1919.)

Engineering . . . . .	\$530 58
Inspection . . . . .	926 59
Engineering expense . . . . .	34 60
Blocks, 201,570 recut granite . . . . .	12,094 20
Edgestone . . . . .	53 50
Photographs . . . . .	24 00

\$13,663 47

Credit: Brick, old, sidewalk . . . . . 523 00

\$13,140 47

Amount paid William J. Barry, under contract:

50 linear feet straight edgestone and corners hauled and set @ 20c.	\$10 00
192 linear feet circular edgestone set @ 30c.	57 60
11,050 linear feet existing edgestone reset @ 20c.	2,210 00
1,748 square yards existing granite block paving relaid, gravel joints, @ 75c.	1,311 00
14,336 square yards granite block paving recut, hauled and laid, sand bed, grout joints, @ \$3.50	50,176 00
18,010 square yards existing granite block paving recut and relaid, concrete base sand bed and grout joints, @ \$3.50	63,035 00
668 square yards existing brick sidewalks relaid, @ 50c.	334 00
94,154 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 21c.	19,772 34

*Carried forward* . . . . . \$136,905 94 \$13,140 47



*Brought forward* . . . . \$136,905 94 \$13,140 47

274 square feet artificial stone  
driveways, concrete  
base and wearing sur-  
face furnished and laid  
@ 25c. . . . . 68 50

50 covers reset @ \$3 . . . . 150 00

9 Bradley head catch-  
basins reset @ \$5 . . . . 45 00

33 courses of brickwork  
laid @ 50c. . . . . 16 50

315 linear feet track basin  
drain etc. laid @ \$2.50 . . . 787 50

60 cubic yards earth exca-  
vation above grade in  
outside trench for tests  
pits, etc. @ \$2 . . . . 120 00

(Section 1, Article E,  
Overhaul.)

• 1,049 tons recut granite block  
hauled from Massachu-  
setts avenue lot (in-  
stead of from Dorches-  
ter avenue lot), 2 miles  
overhaul @ 11c. per  
ton per half mile . . . . 461 56

775 tons recut granite block  
hauled from park  
grounds, Massachu-  
setts avenue (instead  
of from Dorchester  
avenue lot), 2½ miles  
overhaul @ 11c. per  
ton per half mile . . . . 426 25

865 tons recut granite blocks  
hauled from Fifth  
street lot and District 1  
yard (instead of from  
Dorchester avenue lot)  
2 miles overhaul @ 11c.  
per ton per half mile . . . 380 60

\$139,361 85

13,682 square yards granite  
blocks bought by con-  
tractor @ 30c. . . . . 4,104 60

\$135,257 25

Amount paid in 1919 . . . . 89,258 41

\$45,998 84

Less amount retained . . . . 1,000 00

44,998 84

\$58,139 31

*Market street*, from Washington street across Western avenue. Length,  
5,015 linear feet. Area, 17,780 square yards. Edgestone reset,  
artificial stone sidewalks constructed at church property. Roadway  
not started. (Unfinished.)

Engineering . . . . . \$628 24

Inspection . . . . . 44 75

*Carried forward* . . . . . \$672 99

<i>Brought forward</i>		\$672 99	
Engineering expense		2 60	
Advertising		7 70	
Amount paid to Simpson Brothers Corpora- tion, under contract:			
4 linear feet straight edge- stone set @ 35c.	\$1 40		
19 linear feet circular edge- stone set @ 40c.	7 60		
270 linear feet existing edge- stone reset @ 30c.	81 00		
2,458 square feet artificial stone foundation furnished and placed @ 6c.	147 48		
2,321 square feet artificial stone sidewalks, concrete base and wearing surface fur- nished and laid @ 26c.	603 46		
137 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 33c.	45 21		
1 cover reset @ \$3	3 00		
2 Bradley head catch-basins reset @ \$5	10 00		
	<hr/>		
	\$899 15		
Less 15 per cent retained,	134 87		
	<hr/>		
		764 28	
		<hr/>	
			\$1,437 27

*Mt. Vernon street*, from Joy street to West Cedar street. Length, 1,200 linear feet. Area, 4,511 square yards. Edgestone reset, bituminous macadam roadway laid and brick sidewalks relaid. (Work unfinished.)

Engineering	\$730 86	
Inspection	286 72	
Engineering expense	2 15	
Advertising	6 30	
Templets	30 00	
Labor, handling stock.	530 16	
Edgestone	1,045 15	
Crushed stone: 912.2 tons	2,280 50	
Bricks	45 00	
Road oil: 9,000 gallons binder	1,305 00	
Teaming	1,340 40	
Amount paid to John W. O'Connell, under contract:		
477 linear feet straight edge- stone set @ 39c.	\$186 03	
52 linear feet circular edge- stone set @ 40c.	20 80	
1,558 linear feet existing edge- stone reset @ 39c.	607 62	
150 square yards existing granite block or cobble paving relaid, gravel joints, @ \$1.45	217 50	
1,863 square yards existing brick sidewalks relaid @ 70c.	1,304 10	
	<hr/>	
<i>Carried forward</i>	\$2,336 05	\$7,602 24

<i>Brought forward</i> . . . . .	\$2,336 05	\$7,602 24
16,500 brick loaded and hauled from Chestnut Hill Paving Yard, Brighton, @ \$4 per M. . . . .	66 00	
Extra work — Omit Items 7 <i>a</i> and 7 <i>b</i> (hauling and laying brick block paving, etc.) and substitute excavating subgrading and rolling crushed stone: 4,000 square yards crushed stone excavated, sub- graded and rolled @ \$1.55 . . . . .	6,200 00	
	<hr/>	
	\$8,602 05	
Less 15 per cent retained,	1,290 31	
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		7,311 74
		<hr/>
		\$14,913 98

*Newbury street*, from Arlington street to Fairfield street. (Work done in 1919.)

Engineering . . . . .	\$28 60	
Engineering expense . . . . .	30	
	<hr/>	
		\$28 90

*Northampton street*, from Washington street to Albany street. (Work not started.)

Engineering . . . . .	\$325 89	
Engineering expense . . . . .	40	
	<hr/>	
		\$326 29

*Parker street*, from Conant street to Tremont street. Length, 653 linear feet. Area, 2,633 square yards. Edgestone reset, asphalt pavement laid, brick sidewalks relaid. (Unfinished work from 1919.)

Amount paid to the Bermudez Company,  
under contract:

66 linear feet circular edge- stone set @ 35c. . . . .	\$23 10	
1,224 linear feet existing edge- stone reset @ 30c. . . . .	367 20	
70 square yards existing granite block paving re- laid, gravel joints, @ \$1,	70 00	
43 square existing granite paving relaid, gravel base, sand bed and grout joints, @ \$1.75 . . . . .	75 25	
2,633 square yards bituminous concrete binder and asphalt wearing surface furnished and laid on macadam foundation @ \$2.11 . . . . .	5,555 63	
140 square yards brick side- walks laid @ 60c. . . . .	84 00	
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<i>Carried forward</i> . . . . .	\$6,175 18	

Brought forward . . . . .	\$6,175 18	
940 square yards existing brick sidewalks relaid @ 50c. . . . .	470 00	
5,778 bricks loaded and hauled from South End paving yard, Albany street, @ \$3.50 per M. . . . .	20 22	
	<hr/>	
	\$6,665 40	
Amount paid in 1919 . . . . .	5,371 25	
	<hr/>	
		\$1,294 15
		<hr/>
		<u>\$1,294 15</u>

*Pleasant street*, from East Cottage street to Stoughton street. Length, 1,418 linear feet. Area, 6,793 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$348 99
Inspection . . . . .	48 35
Engineering expense . . . . .	27 50
Advertising . . . . .	7 30
Templets . . . . .	22 50
Lumber . . . . .	1 44
Bricks . . . . .	13 50
Edgestone . . . . .	19 50
Labor, handling stock . . . . .	6 00
Labor, stonecutter . . . . .	15 00
Teaming . . . . .	18 00
	<hr/>
	\$528 08
Credit: Blocks, old granite . . . . .	56 00
	<hr/>
	\$472 08

Amount paid to Central Construction Company, under contract:

3 $\frac{1}{4}$ cubic yards extra excavation @ \$3 . . . . .	\$9 75	
55.15 tons crushed stone furnished, placed, watered, etc., @ \$4 . . . . .	220 60	
728 linear feet existing edgestone reset @ 30c. . . . .	218 40	
63 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	63 00	
3 square yards existing granite block paving relaid, sand bed and grout joints, @ \$2.50 . . . . .	7 50	
6,793 square yards Topeka wearing surface furnished and laid on macadam foundation @ \$2.79 . . . . .	18,952 47	
1,006 square feet artificial stone foundation furnished and placed @ 8c. . . . .	80 48	
	<hr/>	
Carried forward . . . . .	\$19,522 20	\$472 08

<i>Brought forward</i> . . . . .	\$19,522 20	\$472 08
1,537 square feet artificial stone sidewalks, con- crete base and wearing surface furnished and laid @ 30c. . . . .	461 10	
139 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 35c. . . . .	48 65	
21 covers reset @ \$3 . . . .	63 00	
3 Bradley head catch-basins reset @ \$5 . . . . .	15 00	
45 courses of brickwork laid @ 50c. . . . .	22 50	
21 cubic yards loam fur- nished @ \$3.70 . . . . .	77 70	
134 square yards loam graded and seeded @ 35c. . . . .	46 90	
	<hr/>	20,287 05
		<hr/> <u>\$20,759 13</u>

*Pleasant street*, from Stoughton street to Savin Hill avenue. Length, 830 linear feet. Area, 2,533 square yards. Edgestone set, granite blocks laid in dummy of car tracks. Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$927 13
Inspection . . . . .	599 30
Engineering expense . . . . .	11 30
Advertising . . . . .	7 20
Templets . . . . .	5 00
Edgestone . . . . .	30 58
Lumber . . . . .	4 74
Teaming . . . . .	3 93
	<hr/>
	\$1,589 18
Credit: Bricks, old sidewalk . . . . .	157 00
	<hr/>
	\$1,432 18

Amount paid to Francis J. Burke, under contract:

9 cubic yards extra earth excavation @ \$3.50 . . . . .	\$31 50	
21 linear feet circular edge- stone set @ 35c. . . . .	7 35	
1,300 linear feet existing edge- stone reset @ 40c. . . . .	520 00	
12 square yards existing granite block paving re- laid, gravel joints, @ \$1.20 . . . . .	14 40	
4 square yards existing granite block paving relaid in roadway and edgings, concrete base, sand bed and grout joints, @ \$4.50 . . . . .	18 00	
	<hr/>	
<i>Carried forward</i> . . . . .	\$591 25	\$1,432 18

<i>Brought forward</i> . . . . .	\$591 25	\$1,432 18
217 square yards existing granite block paving relaid in dummy of car tracks, concrete base, sand bed and grout joints, @ \$5 . . . . .	1,085 00	
149 square yards existing granite block paving relaid in brows of car tracks, concrete base, sand bed and grout joints, @ \$5.20 . . . . .	774 80	
2,734 square yards concrete base and Topeka wearing surface furnished and laid @ \$5 . . . . .	13,670 00	
130 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.70 . . . . .	351 00	
57 square yards existing brick sidewalks relaid @ 50c , . . . . .	28 50	
3,182 square feet artificial stone foundation furnished and placed @ 5c. . . . .	159 10	
9,977 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 31c., . . . . .	3,092 87	
305 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 38c. . . . .	115 90	
6 covers reset @ \$3 . . . . .	18 00	
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	\$19,886 42	
Less 5 per cent retained . . . . .	994 32	
	<hr/>	
	18,892 10	
		<hr/>
		\$20,324 28

*Portland street*, from Hanover street to Causeway street. (Work not started)

Engineering . . . . .	\$139 57
Advertising . . . . .	2 33
	<hr/>
	\$141 90

*Ralston street* (northerly side), from Boston street about 85 feet easterly. Length, 85 linear feet. Concrete retaining wall and fence constructed.

Engineering . . . . .	\$364 60
Inspection . . . . .	177 53
Engineering expense . . . . .	1 20
Advertising . . . . .	6 75
Bricks . . . . .	37 50
Teaming . . . . .	4 00
	<hr/>
<i>Carried forward</i> . . . . .	\$591 58

<i>Brought forward</i>	\$591 58	
Amount paid to Andrews Construction Company, under contract:		
Furnishing all materials and doing all the work necessary to build retaining wall and fence	\$3,930 00	
Less 15 per cent retained	589 50	
	<u>3,340 50</u>	\$3,932 08
<i>Richmond street</i> , from Hanover street to Atlantic avenue. (Work not started.)		
Engineering	\$140 76	
Templets	20 00	
Advertising	2 33	
	<u>163 09</u>	\$163 09
<i>River street</i> , from bridge over Providence Railroad across Everett square. Length, 1,269 linear feet. Area, 6,020 square yards. (Work not started.)		
Engineering	\$497 14	
Engineering expense	10 90	
Advertising	7 40	
	<u>515 44</u>	\$515 44
<i>Roxbury street</i> , from Kent street to John Eliot square. (Work not started.)		
Engineering	\$32 00	
Engineering expense	2 45	
	<u>34 45</u>	\$34 45
<i>Rutherford avenue</i> , from Cambridge street to Chapman street. Length, 3,800 linear feet. Area, 19,565 square yards. Edgestone reset, recut granite block pavement laid and brick sidewalks relaid.		
Engineering	\$1,113 82	
Inspection	1,258 60	
Engineering expense	40 10	
Blocks, 384,025 recut granite	23,041 50	
Bricks, 91,700 old sidewalk	1,375 50	
Edgestone	317 11	
Photographs	20 00	
Amount paid to Coleman Brothers, under contract:		
128 linear feet straight edgestone set @ 30c.	\$38 40	
50 linear feet circular edgestone set @ 50c.	25 00	
7,433 linear feet existing edgestone reset @ 30c.	2,229 90	
1,710 square yards existing granite block paving relaid, gravel joints, @ \$1	1,710 00	
9,711 square yards granite block paving recut, hauled and laid, concrete base, sand bed and grout joints, @ \$3.50	33,988 50	
	<u>\$37,991 80</u>	\$27,166 63
<i>Carried forward</i>		

<i>Brought forward</i>	\$37,991 80	\$27,166 63
9,854 square yards existing granite block paving recut and relaid, concrete base, sand bed and grout joints, @ \$3	29,562 00	
538 square yards existing granite block paving relaid, grout joints, @ \$1.50	807 00	
590 square yards brick sidewalks laid @ 60c.	354 00	
5,816 square yards existing brick sidewalks relaid @ 60c.	3,489 60	
84,500 sidewalk bricks loaded and hauled from Charlestown Paving Yard, Medford street, at \$3 per M.	253 50	
38 covers reset @ \$3	114 00	
40 Bradley head catch-basins reset @ \$5	200 00	
294 courses of brickwork laid @ 50c.	147 00	
Extra work — Remove accumulation of rubbish, ashes, etc., from roadway. The roadway has to be cleaned of surplus material before the paving blocks can be barred up:		
67 hours, foreman, @ 80c.	53 60	
650 hours' labor @ 60c.	390 00	
Plus 15 per cent on \$443.60	66 54	
90 hours, double team, @ \$1,	90 00	
	<hr/>	
	\$73,519 04	
6,877 square yards old granite blocks bought by contractor @ 40c.	2,750 80	
	<hr/>	
	70,768 24	
	<hr/>	
		<u>\$97,934 87</u>
<i>Saratoga street</i> , from Chelsea street to Bennington street. (Work done in 1919.)		
Engineering		<u>\$39 12</u>
<i>Shirley street</i> , from Massachusetts avenue, 400 feet southerly. (Work done in 1919.)		
Engineering expense		<u>\$0 30</u>
<i>Smith street</i> , from Huntington avenue to St. Alphonsus street. Length, 584 linear feet. Area, 1,774 square yards. Edgestone reset, asphalt pavement laid, brick sidewalks relaid. (Unfinished work from 1919.)		
Engineering	\$33 68	
Inspection	30 68	
	<hr/>	
<i>Carried forward</i>	\$64 36	



<i>Brought forward</i>	\$64 36
Cement	88 32
Crushed stone	29 28
Gravel	7 09
Labor, repairing roadway	134 00
Teaming	40 00

Amount paid to the Bermudez Company, under contract:

27 linear feet circular edge-stone set @ 35c.	\$9 45
894 linear feet existing edge-stone reset @ 30c.	268 20
16 square yards existing granite block paving relaid, gravel joints, @ \$1,	16 00
37 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$1.75	64 75
1,774 square yards bituminous concrete binder and asphalt wearing surface furnished and laid on macadam foundation @ \$2.11	3,743 14
8 square yards brick sidewalks laid @ 60c.,	4 80
691 square yards existing brick sidewalks relaid @ 50c.	345 50
14,400 bricks loaded and hauled from South End Paving Yard, Albany street, @ \$3 50 per M.	50 40
2 covers reset @ \$3	6 00
2 Bradley head catch-basins reset @ \$5	10 00
6 courses of brickwork laid @ 50c.	3 00

\$4,521 24

Amount paid in 1919 3,716 58

804 66

\$1,167 71

*Smith street*, from Phillips street to Parker street. Length, 609 linear feet. Area, 1,759 square yards. Edgestone reset, asphalt pavement laid and brick sidewalks relaid. (Final payment on work done in 1919.)

Amount paid the Bermudez Company, under contract:

41 linear feet circular edge-stone set @ 35c.	\$14 35
1,148 linear feet existing edge-stone reset @ 30c.	344 40
3 square yards existing granite block paving relaid, gravel joints, @ \$1	3 00

*Carried forward* \$361 75

<i>Brought forward</i> . . . . .	\$361 75		
18 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$1.75 . . . . .	31 50		
1,759 square yards bituminous concrete binder and asphalt wearing surface furnished and laid on macadam foundation @ \$2.11. . . . .	3,711 49		
222 square yards brick sidewalks laid @ 60c. . . . .	133 20		
789 square yards existing brick sidewalks relaid @ 50c. . . . .	394 50		
14,400 bricks loaded and hauled from South End Paving Yard, Albany street @ \$3.50 per M. . . . .	50 40		
	<hr/>		
	\$4,682 84		
Amount paid in 1919 . . . . .	3,850 03		
	<hr/>		
		\$832 81	
		<hr/>	
			<u>\$832 81</u>
<i>Southampton street</i> , from Albany street to Massachusetts avenue. (Work not started.)			
Engineering . . . . .	\$103 68		
Engineering expense . . . . .	1 80		
	<hr/>		
			<u>\$105 48</u>
<i>Summer street</i> , from Fort Point channel to bridge over railroad. (Work done in 1919.)			
Engineering expense . . . . .			<u>\$0 45</u>
<i>Sussex street</i> , from Hammond street to Warwick street. (Work done in 1919.)			
Engineering expense . . . . .			<u>\$0 15</u>
<i>Tremont street</i> , from Dover street to Northampton street. Length, 3,850 linear feet. Area, 27,340 square yards. Edgestone reset, granite block pavement laid and sheet asphalt pavement laid and artificial stone sidewalks constructed.			
Engineering . . . . .	\$1,451 72		
Inspection . . . . .	1,969 24		
Engineering expense . . . . .	103 65		
Edgestone . . . . .	761 56		
Blocks, 106,770 recut granite . . . . .	6,316 00		
Expert services, analyzing blocks, etc . . . . .	86 35		
Labor, stonecutter . . . . .	30 00		
Photographs . . . . .	20 00		
	<hr/>		
	\$10,738 52		
Credit: Bricks, old sidewalk . . . . .	3,371 85		
	<hr/>		
<i>Carried forward</i> . . . . .	\$7,366 67		

<i>Brought forward</i>		\$7,366 67
Amount paid to B. E. Grant Company, under contract:		
1,979 cubic yards filling furnished @ \$1 . . .	\$1,979 00	
177½ tons crushed stone furnished and placed @ \$4 . . .	710 00	
10 linear feet straight edgestone hauled and set @ 50c. . . . .	5 00	
517 linear feet circular edgestone set @ 35c. . . . .	180 95	
8,187 linear feet existing edgestone reset @ 28c. . . . .	2,292 36	
154 square yards existing granite block paving relaid, gravel joints, @ \$1.50 . . . . .	231 00	
2,172 square yards granite block paving recut, hauled and laid in dummy, concrete base and grout joints. @ \$3.75 . . . . .	8,145 00	
43 square yards granite block paving recut, hauled and laid on driveways and edgings, concrete base and grout joints @ \$4. . . . .	172 00	
324 square yards existing granite block paving recut and relaid in brows, concrete base and grout joints @ \$4. . . . .	1,296 00	
651 square yards existing granite block paving recut and relaid in brows of car tracks, concrete base and grout joints. @ \$4. . . . .	2,604 00	
25,556 square yards concrete base, bituminous concrete binder and asphalt wearing surface furnished and laid @ \$3.30 . . . . .	84,334 80	
3,028 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.50 . . . . .	7,570 00	
605 square yards existing brick sidewalks relaid @ 35c. . . . .	211 75	
128,500 bricks loaded and hauled from Massachusetts avenue lot @ \$1 per M. . . . .	128 50	
<i>Carried forward</i> . . . . .	\$109,260 36	\$7,366 67

<i>Brought forward</i>	\$109,260 36	\$7,366 67
42 covers reset @ \$3 . . .	126 00	
87 courses of brickwork laid @ 50c. . . . .	43 50	
Extra work — Make roadway safe at brows on account of change in grade in tracks:		
Making roadway safe . . . . .	50	
Extra work — Omit the relaying of brick side- walks and substitute the furnishing and laying of artificial stone sidewalks:		
95,857 square feet artificial stone sidewalks, con- crete base and wear- ing surface furnished and laid @ 27c. . . . .	25,881 39	
Extra work — Remove old concrete and backfill Water De- partment trench op- posite Hanson street:		
6½ hours, foreman, @ \$1.25,	8 13	
39 hours' labor @ 65c. . . . .	25 35	
Plus 15 per cent on \$33.48 . . . . .	5 02	
3 hours, auto truck, @ \$4.37½ . . . . .	13 13	
Extra work — Move and joint circular edgestone at Canton street and Brookline street:		
4 hours, edgestone setter, @ \$1.25 . . . . .	5 00	
12 hours' labor @ 65c. . . . .	7 80	
Plus 15% on \$12.80 . . . . .	1 92	
Extra work — Relay existing granite block paving with grout joints in Tremont street, from North- ampton street about 50 feet westerly:		
342 square yards existing granite block paving relaid, grout joints, @ \$1.75 . . . . .	598 50	
Extra work — Remove three (3) trees and stumps:		
3 trees and stumps re- moved @ \$100 . . . . .	300 00	
<i>Carried forward</i> . . . . .	\$136,276 60	\$7,366 67

<i>Brought forward</i> . . . . .	\$136,276 60	\$7,366 67	
26,746 square yards old granite block bought by contractor @ 10c. . . . .	2,674 60		
	<u>\$134,251 50</u>		
Amount paid in 1919 . . . . .	1,511 94		
		132,739 56	
			<u>\$140,106 23</u>

*Tremont street*, from Castle street to Dover street. (Work done in 1919.)  
 Engineering expense . . . . . \$0 30

*Tremont street*, from Hammond street to William Pynchon square. (Work done in 1919.)  
 Engineering . . . . . \$62 50  
 Engineering expense . . . . . 5 10  
\$67 60

*Union Park street* (north side), from Washington street to Harrison avenue. Length, 446 linear feet. Area, 4,425 square feet. Artificial stone sidewalks constructed.  
 Engineering . . . . . \$16 00  
 Inspection . . . . . 70 13  
 Advertising . . . . . 6 30  
 Amount paid to Joseph A. Singarella, under contract:  
 4,425 square feet artificial stone sidewalks furnished and laid @ 27c . . . . . 1,194 75  
\$1,287 18

*Warwick street*, from Hammond street to Ruggles street. (Work done in 1919.)  
 Engineering . . . . . \$10 00  
 Engineering expense . . . . . 15  
\$10 15

*Washington street*, from Forest Hills to Archdale road. (Work done in 1919.) . . . . . \$3 00

*Washington street*, Brighton, from Market street across Tremont street. Length, 4,120 linear feet. Area, 7,402 square yards. Edgestone set and reset, granite block brows and laid bitulithic pavement and artificial stone sidewalks and driveways constructed.  
 Engineering . . . . . \$545 80  
 Inspection . . . . . 932 51  
 Engineering expense . . . . . 101 37  
 Blocks: old granite . . . . . 672 70  
 Edgestone: 1,655 feet 8 inches . . . . . 2,283 80  
 Teaming . . . . . 155 19  
 Photographs . . . . . 20 00  
\$4,711 37  
 Credit: Bricks, old sidewalk . . . . . 124 46  
*Carried forward* . . . . . \$4,586 91

<i>Brought forward</i>		\$4,586 91
Amount paid to Warren Brothers Company, under contract:		
12 cubic yards rock excavation @ \$5 . . . .	\$60 00	
114,310 tons crushed stone furnished and placed @ \$3.30 . . . .	377 19	
2,472 linear feet straight edge-stone hauled, and set @ 40c. . . .	988 80	
161 linear feet circular edge-stone set @ 40c. . .	64 40	
3,929 linear feet existing edge-stone reset @ 30c. . .	1,178 70	
1,518 linear feet crushed stone and concrete foundation furnished and laid @ 24c. . . .	364 32	
631 cubic yards concrete base furnished and laid @ \$9 . . . .	5,589 00	
333 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . .	333 00	
2,413 square yards granite block paving recut, hauled and laid in dummy, sand bed and grout joints, @ \$2.30 . . . .	5,549 90	
1,243 square yards existing granite block paving recut and relaid in dummy, sand bed and grout joints, @ \$2 . . . .	2,486 00	
596 square yards existing granite block paving recut and relaid in brows of car tracks, sand bed, grout joints, @ \$2 . . . .	1,192 00	
328 square yards existing granite block paving relaid in driveways, gravel base, sand bed, grout joints, @ \$1.57. . . .	514 96	
14,731 square yards bitulithic wearing surface furnished and laid on macadam foundation @ \$2.23 . . . .	32,850 13	
66 square yards existing brick sidewalks relaid @ \$1 . . . .	66 00	
63,304 square feet artificial stone foundation furnished and placed @ 7c. . . .	4,431 28	
<i>Carried forward</i> . . . .	\$56,045 68	\$4,586 91

<i>Brought forward</i>	\$56,045 68	\$4,586 91
54,676 square feet artificial stone sidewalks, con- crete base and wear- ing surface furnished and placed @ 24c.	13,122 24	
1,451 square feet artificial stone driveways, con- crete base and wear- ing surface furnished and laid, @ 30c.	435 30	
50 covers reset @ \$3	150 00	
5 Bradley head catch- basins reset @ \$5	25 00	
82 courses of brickwork laid @ 50c.	41 00	
4 dry wells constructed	10 00	
Extra work — Remove stump in sidewalk where directed and haul paving blocks from Forest Hills:		
101 hours' labor @ 60c.	60 60	
Plus 15 per cent on \$60.60	9 09	
25 hours, double team, @ \$1.	25 00	
8 hours, auto truck, @ \$3.75	30 00	
	<hr/>	
	\$69,953 91	
Less 1,569 linear feet straight edgestone delivered on street by city @ 10c.	156 90	
	<hr/>	
	\$69,797 01	
Amount paid in 1919	27,318 80	
	<hr/>	
	42,478 21	
	<hr/>	
		<u>\$47,065 12</u>

*Washington street*, from Beach street across Kneeland street. Length, 290 linear feet. Area, 640 square yards. Edgestone set and wood block pavement laid. (Unfinished.)

Engineering	\$362 97
Inspection	241 62
Engineering expense	75
Advertising	3 25
Edgestone	14 92
Expert services, analyzing blocks, etc.	32 95
	<hr/>
	\$656 46
Credit: Blocks, old granite	12 00
	<hr/>
	\$644 46
Amount paid to James Doherty, under con- tract:	
15 linear feet circular edgestone set @ 39c.	\$5 85
	<hr/>
<i>Carried forward</i>	\$5 85
	<hr/>
	\$644 46

<i>Brought forward</i> . . .	\$5 85	\$644 46
76 linear feet existing edge-stone reset @ 30c. . .	22 80	
118 cubic yards concrete base furnished and laid @ \$11, . . .	1,298 00	
35 square yards existing granite block paving relaid, gravel joints, @ \$1 . . .	35 00	
35 square yards existing granite block paving recut and relaid, sand bed and grout joints, @ \$2.23 . . .	78 05	
112 square yards existing granite block paving relaid, grout joints, @ \$1.84 . . .	206 08	
587 square yards wood block pavement furnished and laid @ \$5.19 . . .	3,046 53	
68 square yards existing brick sidewalks relaid @ 55c. . .	37 40	
4 covers reset @ \$3 . . .	12 00	
	<hr/>	
	\$4,741 71	
Less 15 per cent retained . . .	711 25	
	<hr/>	
		4,030 46
		<hr/>
		<u>\$4,674 92</u>

*Washington street*, West Roxbury, from Archdale road to 75 feet south of Corinth street. Length, 3,387 linear feet. Area, 16,559 square yards. Edgestone set and reset, gravel sidewalk graded, 5-inch granite block pavement laid on 6-inch concrete base each side of track and recut blocks on 6-inch concrete base laid in track location. (Unfinished.)

Engineering . . . . .	\$1,082 23
Inspection . . . . .	1,570 34
Engineering expense . . . . .	20 25
Advertising . . . . .	6 75
Templets . . . . .	17 40
Teaming . . . . .	6 00
Edgestone, 4,413 feet straight, 309 feet circular, 4 small corners and 1 special stone, Expert services, analyzing, etc. . . . .	8,757 91
	45 00
	<hr/>
	\$11,505 88
Credit: Blocks, old granite . . . . .	1,668 00
	<hr/>
	\$9,837 88

Amount paid to William J. Barry, under contract:

Removing trees, bushes, etc. . . . .	\$100 00
13 cubic yards rock excavation @ \$5 . . . . .	65 00
4,363 linear feet straight edgestone set @ 30c. . . . .	1,308 90
369 linear feet circular edgestone set @ 30c. . . . .	110 70
	<hr/>
<i>Carried forward</i> . . . . .	\$1,585 60
	<hr/>
	\$9,837 88



<i>Brought forward</i> . . . . .	\$1,585 60	\$9,837 88
1,397 linear feet existing edge-stone reset @ 30c. . . . .	419 10	
560 linear feet crushed stone and concrete foundation furnished and placed @ 10c. . . . .	56 00	
12,826 square yards granite block paving furnished and laid, concrete base, sand bed, grout joints, @ \$7.75 . . . . .	99,401 50	
20 square yards granite block paving relaid, gravel base, sand bed and grout joints, @ \$2, . . . . .	40 00	
73 square yards existing brick sidewalks relaid @ 50c. . . . .	36 50	
18 covers reset @ \$3 . . . . .	54 00	
1 Bradley head catch-basin reset @ \$5 . . . . .	5 00	
5 courses of brickwork laid @ 50c. . . . .	2 50	
3,000 square yards gravel sidewalks placed, shaped, watered and rolled, @ 30c. . . . .	900 00	
Extra work — Furnish and lay granite block paving, gravel base, grout joints on approaches as directed.		
116 square yards granite block paving furnished and laid, gravel base and grout joints, @ \$5.75 . . . . .	667 00	
Extra work — grade approaches to Murray Hill road and place crushed stone to back up paving at side off Washington streets street:		
1 day, foreman, @ \$8 . . . . .	8 00	
5½ days' labor @ \$5.60 . . . . .	30 80	
Plus 15 per cent on \$38.80 . . . . .	5 82	
1 day, auto truck, @ \$35, . . . . .	35 00	
14½ tons crushed stone @ \$2.75 . . . . .	39 88	
Extra work — Haul excavated material to Walter street at Centre street:		
4 days, auto truck, @ \$35, . . . . .	140 00	
<i>Carried forward</i> . . . . .	\$103,286 70	\$9,837 88

<i>Brought forward</i>	\$103,286 70	\$9,837 88
Extra work — Haul surplus recut blocks of Boston Elevated Railway Company to Belgrade avenue:		
1 day, foreman, @ \$8	8 00	
12½ days' labor @ \$5.60	70 00	
Plus 15 per cent on \$78,	11 70	
3½ days, auto truck, @ \$35,	122 50	
Extra work — Replace concrete base removed by Water Service:		
3½ square yards concrete replaced @ \$2.85	9 50	
Extra work — Remove buried stump in edgestone trench:		
1 day's labor @ \$5.60	5 60	
Plus 15 per cent on \$5.60,	84	
Extra work — Light dummy of track location during suspension of work by Boston Elevated Railway Company:		
18¾ days' labor @ \$5.60	105 00	
Plus 15 per cent on \$105,	15 75	
2,650 lights, breakage and oil @ 10c.	265 00	
	<u>\$104,039 59</u>	
Less 5 per cent retained,	5,201 98	
		98,837 61
		<u>\$108,675 49</u>

*Westminster street*, from Hammond street to Ruggles street. (Work done in 1919.)

Engineering expense . . . . . \$0 15

*Weston street*, from Warwick street to Tremont street. (Work done in 1919.)

Engineering . . . . . \$0 15  
 Engineering expense . . . . . 8 00  
\$8 15

*Williams street*, from Washington street to Westminster street. (Work done in 1919.)

Engineering expense . . . . . \$0 15

*Windsor street*, from Shawmut avenue to Cabot street. Work done in 1919.)

Engineering expense . . . . . \$0 15

*Worcester street and Worcester square*, from Harrison avenue to Columbus avenue. Length, 2,500 linear feet. Area, 10,722 square yards (including Worcester square). Edgestone reset, asphalt pavement laid on macadam and brick sidewalks relaid. (Unfinished work from 1919.)

Engineering expense . . . . . \$0 15

*Carried forward* . . . . . \$0 15

<i>Brought forward</i>		\$0 15
<i>Worcester street</i> , Columbus avenue to Washington street.		
Amount paid to Central Construction Company, under contract:		
18 cubic yards extra earth excavation @ \$1.80 . . .	\$32 40	
172 linear feet straight edge-stone and corners hauled and set @ 35c., . . .	60 20	
82 linear feet circular edge-stone set @ 30c. . . . .	24 60	
3,235 linear feet existing edge-stone reset @ 30c. . . . .	970 50	
38 square yards existing granite block paving relaid, gravel joints, @ 80c. . . . .	30 40	
397 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$1.20 . . . . .	476 40	
6,915 square yards bituminous concrete binder and asphalt wearing surface furnished and laid, etc., @ \$2.09 . . . . .	14,452 35	
214 square yards brick sidewalks laid @ 60c. . . . .	128 40	
2,273 square yards existing brick sidewalks relaid @ 50c. . . . .	1,136 50	
8 covers reset @ \$3 . . . . .	24 00	
	<hr/>	
	\$17,335 75	
Less amount paid in 1919,	14,249 10	
	<hr/>	
		3,086 65
<i>Worcester square</i> , Washington street to Harrison avenue.		
23 tons crushed stone furnished, placed, etc., @ \$3.20 . . . . .	\$73 60	
48 linear feet circular edge-stone set @ 30c. . . . .	14 40	
1,598 linear feet existing edge-stone reset @ 30c. . . . .	479 40	
42 square yards existing granite block paving relaid, gravel joints, @ 80c. . . . .	33 60	
150 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$1.20 . . . . .	180 00	
3,807 square yards bituminous concrete binder and asphalt wearing surface furnished and laid on macadam foundation @ \$2.09 . . . . .	7,956 63	
	<hr/>	
<i>Carried forward</i>	\$8,737 63	\$3,086 80

<i>Brought forward</i> . . . . .	\$8,737 63	\$3,086 80
1,162 square yards existing brick sidewalks relaid @ 50c. . . . .	581 00	
6 covers reset @ \$3 . . . .	18 00	
3 courses of brickwork laid @ 50c. . . . .	1 50	
	<hr/>	
	\$9,338 13	
Less amount paid in 1919,	7,543 84	
	<hr/>	
		1,794 29
		<hr/>
		<u>\$4,881 09</u>

## STREET IMPROVEMENTS.

\* *Centre street*, from Forbes street to Boylston street. Length, 1,386 linear feet. Area, 3,560 square yards. Edgestone set and reset, Topeka pavement laid on macadam foundation, brick sidewalks relaid. (Unfinished.)

Engineering . . . . .	\$621 80
Inspection . . . . .	172 55
Advertising . . . . .	3 65
Edgestone, 720 feet straight, 6 small corners,	1,392 00
Bricks . . . . .	15 00
Amount paid to Central Construction Com- pany, under contract:	
10 cubic yards rock excava- tion @ \$6 . . . . .	\$60 00
40½ tons crushed stone fur- nished, placed, watered and rolled @ \$3 . . . .	121 50
689 linear feet straight edge- stone set @ 32c. . . . .	220 48
33 linear feet circular edge- stone set @ 35c. . . . .	11 55
1,131 linear feet existing edge- stone reset @ 30c. . . .	339 30
265 linear feet crushed stone and concrete foundation furnished and placed @ 30c. . . . .	79 50
52 square yards existing gran- ite block paving relaid, in driveways and edg- ings, gravel bases, and bed and grout joints, @ \$2 . . . . .	104 00
7 square yards existing gran- ite block paving relaid in brows of car tracks gravel base, sand bed and grout joints, @ \$2.50 . . . . .	17 50
3,560 square yards Topeka wearing surface fur- nished and laid on ma- cadam foundation @ \$2.35 . . . . .	8,366 00
	<hr/>
<i>Carried forward</i> . . . . .	\$9,319 83
	<hr/>
	\$2,205 00

\* Done in connection with Green street.

<i>Brought forward</i> . . . . .	\$9,319 83	\$2,205 00
775 square yards existing brick sidewalks relaid @ 70c. . . . .	542 50	
	<hr/> \$9,862 33	
Less 5 per cent retained . . . . .	493 12	
	<hr/>	9,369 21
		<hr/> <u>*\$11,574 21</u>

*La Grange street* (north side), from Centre street to Landseer street.  
Length, 1,005 linear feet. Area, 8,950 square feet. (Work unfinished.)

Engineering . . . . .	\$30 43	
Inspection . . . . .	157 23	
Engineering expense . . . . .	55	
Advertising . . . . .	6 30	
Edgestone, 872 feet straight, 29 feet circular and six corners . . . . .	1,781 69	
Amount paid to Joseph Todesca:		
870 linear feet edgestone set @ 27c. . . . .	\$234 90	
50 linear feet circular edge- stone and corners set @ 27c. . . . .	13 50	
25 linear feet existing edge- stone reset @ 27c. . . . .	6 75	
200 linear feet crushed stone and concrete foundation furnished and placed @ 30c. . . . .	60 00	
50 square yards granite block paving hauled and laid, gravel joints, @ \$1.35 . . . . .	67 50	
150 square yards existing gran- ite block paving relaid, gravel joints, @ \$1 . . . . .	150 00	
8,700 square feet artificial stone foundation furnished and placed @ 10c . . . . .	870 00	
	<hr/> \$1,402 65	
Less 15 per cent retained, . . . . .	210 40	
	<hr/>	1,192 25
		<hr/> <u>\$3,168 45</u>

*Rand street*, repairs.

Blocks . . . . .	\$15 00	
Teaming . . . . .	5 00	
Amount paid to John T. Shea, Jr.:		
375 square yards granite block paving relaid, with grout joints, @ \$2.25 . . . . .	\$843 75	
Setting 4 bases @ \$3 . . . . .	12 00	
	<hr/>	855 75
Amount paid to B. E. Grant Company:		
6.8 square yards block paving repaired at \$15 . . . . .	102 10	
	<hr/>	<hr/> <u>\$977 85</u>

\* Of this amount \$1,516.55 charged to appropriation for reconstructing and repair-  
ing streets by contract.

*Providence street*, from Columbus avenue to Church street. Length, 296 linear feet. Area, 2,575 square yards. Edgestone reset and artificial stone sidewalks constructed.

Engineering . . . . .	\$43 63
Inspection . . . . .	41 37
Advertising . . . . .	6 70
Edgestone . . . . .	10 13
Blocks . . . . .	75 20

Amount paid to Joseph A. Singarella, under contract:

292 linear feet existing edgestone reset @ 50c. . . . .	\$146 00	
2½ cubic yards concrete base furnished and laid @ \$15 . . . . .	37 50	
52 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.75 . . . . .	143 00	
37 square yards existing wood block paving taken up, cleaned, piled and relaid, etc., @ \$2.75 . . . . .	101 75	
1,460 square feet artificial stone foundation furnished and laid @ 5c. . . . .	73 00	
2,575 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 29c., . . . . .	746 75	
3 covers reset @ \$3 . . . . .	9 00	
	<hr/>	1,257 00
		<hr/> <b>\$1,434 03</b>

*St. Albans road*, from Francis street to Huntington avenue. Length, 681 linear feet. Area, 2,694 square feet. Repairing artificial stone sidewalks.

Engineering . . . . .	\$17 30
Inspection . . . . .	30 68
Advertising . . . . .	6 30

Amount paid to Joseph A. Singarella, under contract:

2,626 square feet artificial stone sidewalks, furnished and laid, @ 37c. . . . .	\$971 62	
68 square feet artificial stone driveways, furnished and laid, @ 37c. . . . .	25 16	
	<hr/>	996 78
		<hr/> <b>\$1,051 06</b>

# STREETS CONSTRUCTED OR IN THE PROCESS OF CONSTRUCTION UNDER CHAPTER 393 OF THE ACTS OF 1906, AND THE COST CHARGED TO THE APPROPRIATION FOR HIGHWAYS, MAKING OF.

*Albany street*, from Broadway to 75 feet south of Troy street. Length, 821 linear feet. Area, 5,340 square yards. Edgestone reset, granite block paving laid on concrete base, grout joints. Widened. (Unfinished.)

Engineering . . . . .	\$888 87
Inspection . . . . .	704 95
Engineering expense . . . . .	45 90
Templets . . . . .	27 50
Edgestone . . . . .	412 97
Bricks . . . . .	112 50
Blocks . . . . .	12 00
Gravel . . . . .	31 00
Teaming . . . . .	19 47
Advertising . . . . .	6 30

Amount paid to James Doherty, under contract:

2,500 cubic yards filling furnished @ \$1.65 . . . . .	\$4,125 00
125 cubic yards extra excavation @ \$1.25 . . . . .	156 25
100 square yards existing concrete base excavated and removed @ \$1 . . . . .	100 00
30 linear feet circular edgestone set @ 48c. . . . .	14 40
700 linear feet existing edgestone reset @ 49c. . . . .	343 00
325 cubic yards concrete base furnished and laid @ \$15.25 . . . . .	4,956 25
1,400 square yards existing granite block paving relaid, grout joints, @ \$2.40 . . . . .	3,360 00
100 square yards existing granite block paving relaid, grout joints on gravel base, @ \$2.49 . . . . .	249 00

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\$13,303 90

Less 15 per cent retained, 1,995 59

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11,308 31

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\$13,569 77

*Allenwood street*, from Anawan avenue to Pelton street. (Work not started.)

Engineering . . . . .	\$75 00
Engineering expense . . . . .	90
Advertising . . . . .	1 60

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\$77 50

*Arbutus street*, from Blue Hill avenue to Irma street. Contract made with Martino DeMatteo for construction, but payment not made on contract.

Engineering . . . . .	\$155 70
Inspection . . . . .	69 02
Engineering expense . . . . .	2 50
Advertising . . . . .	8 80
Edgestone 1,259 feet straight and 2 small corners . . . . .	2,384 43

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\$2,620 45

*Archdale road*, from Washington street to South street. (Work not started.)

Engineering . . . . .	\$81 04	
Engineering expense . . . . .	1 00	
Advertising . . . . .	4 20	
		<u>\$86 24</u>

*Augustus avenue*, from Metropolitan avenue to Ethel street. (Work done in 1917.)

Final payment on contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 72</u>
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*Babcock street*, from Commonwealth avenue to Boston & Albany Railroad. Length, 953 linear feet. Area, 4,082 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed. (Unfinished.)

Engineering . . . . .	\$520 41	
Inspection . . . . .	613 93	
Engineering expense . . . . .	25 30	
Advertising . . . . .	5 45	
Templets . . . . .	33 64	
Edgestone, 1,393 feet 6 inches straight, 12 large corners and 42 feet circular . . . . .	2,857 58	
Blocks, 2,400 recut granite . . . . .	144 00	
Labor, stonecutter . . . . .	10 00	
Teaming . . . . .	38 50	
Labor on roadway . . . . .	23 00	
Amount paid to Wilson & Tomlinson for artificial stone sidewalks . . . . .	205 08	
Amount paid to Rowe Contracting Company, under contract.		
2,328 cubic yards earth excavation @ \$1.90 . . . . .	\$4,423 20	
1,389 linear feet straight edgestone set @ 40c. . . . .	555 60	
148 linear feet circular edgestone and corners set @ 45c. . . . .	66 60	
460 cubic yards concrete base furnished and laid @ \$12 . . . . .	5,520 00	
49 square yards granite block paving hauled and laid in brows and dummy of car tracks, sand bed, grout joints, @ \$2.25 . . . . .	110 25	
10 square yards granite block paving hauled and laid in edgings, sand bed and grout joints, @ \$2.75 . . . . .	27 50	
4,082 square yards Topeka wearing surface furnished and laid @ \$2.10 . . . . .	8,572 20	
13,000 square feet artificial stone foundation furnished and placed @ 2c. . . . .	260 00	
<i>Carried forward</i> . . . . .	\$19,535 35	\$4,476 89



<i>Brought forward</i> . . . . .	\$19,535 35	\$4,476 89
2 covers reset @ \$3 . . . . .	6 00	
	<u>\$19,541 35</u>	
Less 15 per cent retained,	<u>2,931 20</u>	
		<u>16,610 15</u>
		<u><u>\$21,087 04</u></u>

\* *Belgrade avenue* extension and Beech street widening.

Engineering . . . . .	\$653 35
Inspection . . . . .	644 78
Advertising . . . . .	15 00
Blocks . . . . .	1,428 00
Edgestone, 1,926 feet straight, 209 feet circular, 6 small corners and 2 specials . . . . .	4,461 99
Photographs . . . . .	24 00
Teaming . . . . .	12 00
Labor, handling stock . . . . .	19 20

\* *Beech street*, from West Roxbury parkway to Belgrade avenue. Length, 158 linear feet. Area, 700 square yards. Edgestone set and reset, foundation placed for artificial stone sidewalks and Topeka pavement laid. (Unfinished.)

Amount paid to Rowe Contracting Company, under contract:

200 cubic yards earth excavation @ \$1.90 . . . . .	\$380 00
260 linear feet straight edgestone set @ 30c. . . . .	78 00
15 linear feet circular edgestone set @ 30c. . . . .	4 50
26 linear feet existing edgestone reset @ 30c. . . . .	7 80
670 square yards concrete base and Topeka wearing surface furnished and laid @ \$4.20 . . . . .	2,814 00
2,500 square feet artificial stone foundation furnished and placed @ 8c. . . . .	200 00

\$3,484 30

Less 15 per cent retained, 522 65

2,961 65

† *Belgrade avenue*, from Anawan avenue to Centre street. Length, 1,303 linear feet. Area, 6,575 square yards. Edgestone set and reset, Topeka pavement laid on six (6) inch concrete base and on macadam base, granite block laid in track location and artificial stone sidewalks constructed. (Unfinished.)

Amount paid to Rowe Contracting Company, under contract:

1,000 cubic yards earth excavation @ \$1.90 . . . . .	\$1,900 00
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*Carried forward* . . . . . \$1,900 00 \$10,219 97

\* Done in connection with Belgrade avenue and Centre street.

† Done in connection with Beech street and Centre street.

<i>Brought forward</i>	\$1,900 00	\$10,219 97
1,645 linear feet straight edge-stone set @ 30c.	493 50	
354 linear feet circular edge-stone and corners set @ 30c.	106 20	
20 linear feet existing edge-stone reset @ 30c.	6 00	
140 square yards granite block pavement, concrete base, sand bed and grout joints, furnished and laid @ \$8.50	1,190 00	
18 square yards existing granite block pavement relaid in driveways and edgings, concrete base, sand bed, grout joints, @ \$4	72 00	
3,650 square yards concrete base and topeka wearing surface furnished and laid @ \$4.20	15,330 00	
18,700 square feet artificial stone foundation furnished and placed @ 8c.	1,496 00	
16,750 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 27c.	4,522 50	
245 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 30c.	73 50	
Extra work — Excavate track area where directed in Belgrade avenue, between Belgrade street and Anawan avenue.		
200 cubic yards earth excavation @ \$2.50	500 00	
Extra work — Reset edgestone and relay gutters where necessary, lay brows to street car tracks and lay topeka pavement on macadam base from 100 feet east of Belgrade street across Anawan avenue.		
400 linear feet existing edge-stone reset @ 30c.	120 00	
350 square yards existing granite block paving relaid, gravel joints, @ \$1.25	437 50	
<i>Carried forward</i>	\$26,247 20	\$10,219 97

<i>Brought forward</i>	\$26,247 20	\$10,219 97
100 square yards existing granite block paving relaid, gravel base, sand bed, and grout joints, @ \$2	200 00	
1,700 square yards bituminous wearing surface furnished and laid on existing macadam foundation @ \$2.30	3,910 00	
	<hr/>	
	\$30,357 20	
Less 15 per cent retained,	4,553 58	
	<hr/>	25,803 62
Amount paid to West Roxbury Trap Rock Company, under contract:		
Removing trees, bushes, etc.	\$1,200 00	
16,066 cubic yards filling furnished and placed @ 98c.	15,744 68	
	<hr/>	
	\$16,944 68	
Less amount paid in 1919	14,402 98	
	<hr/>	2,541 70
Amount paid to West Roxbury Trap Rock Company, under contract:		
Building Belgrade avenue bridge.		
Contract price	\$43,500 00	
Less amount paid in 1919	36,605 25	
	<hr/>	6,894 75
Building two walls and laying drain pipe at bridge. Labor and materials	206 68	
	<hr/>	<u>*\$45,666 72</u>
<i>Bellvista road</i> , from Allston street to Brookline line. (Work done in 1919.)		
Engineering expense		<u>\$0 30</u>
<i>Boylston street</i> (westerly side), from Tremont street to Charles street.		
Length, 728 linear feet. Area, 1,115 square yards. Edgestone reset, roadway widened and wood block pavement laid.		
Engineering	\$293 94	
Engineering expense	6 00	
Inspection	94 23	
Advertising	5 10	
Edgestone	12 00	
Expert services, analyzing blocks, etc.	98 60	
Amount paid to James Doherty, under contract:		
28½ square yards existing concrete base excavated and removed @ 85c.	\$24 23	
35 square yards existing concrete base chipped and removed @ \$1	35 00	
	<hr/>	
<i>Carried forward</i>	\$59 23	\$509 87

\* \$9,963.06 of this amount charged to special appropriation for Belgrade avenue extension and Beech street widening.

<i>Brought forward</i>	\$59 23	\$509 87
79 linear feet circular edge-stone set in gravel @ 65c.,	51 35	
34 linear feet circular edge-stones set in mortar @ 80c.,	27 20	
118 linear feet existing edge-stone set in gravel @ 47c.	55 46	
491 linear feet existing edge-stone set in mortar @ 65c.	319 50	
515 linear feet edgestone with new bed cut and pointed @ 75c.	386 25	
29 cubic yards concrete backing for edgestone furnished and placed @ \$15.75	456 75	
136 cubic yards concrete base furnished and laid @ \$12.50	1,700 00	
580 square yards wood block furnished and laid, mortar bed, sand joint filler, etc., (4 inches) @ \$5.70	3,306 00	
535 square yards wood block furnished and laid, mortar bed, sand joint filler, etc., (3 inches) @ \$5.70	3,049 50	
382 square yards existing wood, block pavement relaid mortar bed, sand joint filler, etc., @ \$1.29	492 78	
2 covers reset @ \$3	6 00	
	<hr/>	
	\$9,909 67	
Less 15 per cent retained	1,486 45	
	<hr/>	
	8,423 22	
	<hr/>	
		<u>\$8,933 09</u>

*Breck avenue*, from Washington street to Langley road. (Work done in 1917.)

Final payment under contract with Martino DeMatteo, for work done in 1917 . . . . . \$35 72

*Buckminster street*, from Commonwealth avenue to Allston Street Play-ground. Length, 500 linear feet. Area, 1,524 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed. (Work done in 1919.)

Engineering . . . . .	\$12 50	
Engineering expense . . . . .	30	
Final payment on contract with Dominick Vozzella Company, under contract, for work done in 1919 . . . . .	1,008 20	
	<hr/>	
		<u>\$1,021 00</u>

*Burlington avenue*, from Brookline avenue 500 feet northwesterly. (Work done in 1919.)

Engineering expense . . . . . \$0 45

*Brenton street*, from Glenway street to Greenwood street. (Work not started.)

Engineering . . . . .	\$67 00	
Engineering expense . . . . .	90	
Advertising . . . . .	1 60	
	<hr/>	\$69 50

*Broadway*, at southeast corner of Washington street. Corner widened and driveway built of granite, blocks on concrete base with grout joints and edgestone set. Area, paved and repaved, 210 square yards.

Labor, roadway excavating . . . . .	\$303 68	
Labor, roadway paving . . . . .	202 33	
Labor, concrete base laid . . . . .	119 12	
Labor, grouting . . . . .	58 23	
Labor, concrete wall excavating . . . . .	59 00	
Labor, edgestone excavating . . . . .	185 12	
Labor, edgestone setting . . . . .	23 00	
Crushed stone, 37.875 tons . . . . .	83 33	
Granite blocks, recut, 3,750 . . . . .	225 00	
Granite blocks, old, 1,875 . . . . .	56 25	
Sand, 38 cubic yards . . . . .	87 40	
Cement, 126 bags . . . . .	122 85	
Granite flagging, 8 feet . . . . .	3 20	
Edgestone, circular, 52 feet 11½ inches . . . . .	140 87	
Edgestone, straight, 6 feet . . . . .	11 34	
Edgestone corners, 2 special, 13 feet 2½ inches, . . . . .	32 00	
Teaming . . . . .	178 10	
	<hr/>	\$1,890 82

*Canterbury street*, at the intersection of Walk Hill street. Edgestone set, roadway excavated, asphalt macadam roadway to be built. (Work unfinished.)

Engineering . . . . .	\$58 88	
Advertising . . . . .	1 60	
Labor, edgestone excavating . . . . .	165 46	
Labor, edgestone setting . . . . .	147 97	
Labor, roadway excavating . . . . .	582 29	
Labor, roadway surfacing . . . . .	116 36	
Labor, roadway filling . . . . .	223 58	
Labor, sidewalk surfacing . . . . .	27 00	
Labor, on fence . . . . .	80 00	
Sand . . . . .	3 48	
Gravel, 410 cubic yards . . . . .	610 92	
Edgestone, 336 feet circular and 16 feet straight . . . . .	906 51	
Teaming . . . . .	179 00	
Crossing blocks . . . . .	10 00	
	<hr/>	\$3,113 05

*Cameron street*, from Hancock street to 538 feet westerly. Length, 538 linear feet. Area, 1,550 square yards. Edgestone set, asphalt pavement laid and artificial stone sidewalks constructed. (Work done in 1919.)

Cost of work done under contract with McGuire & McGurty, Inc., in 1919 . . . . .	\$4,977 20	
Less amount paid in 1919 . . . . .	\$4,086 88	
Less amount retained . . . . .	100 00	
	<hr/>	4,186 88
	<hr/>	\$790 32

*Caspian way*, from Savin Hill avenue 520 feet easterly.

Final payment under contract with Martino DeMatteo for work done in

1917 . . . . .	<u>\$35 71</u>
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*Castleton street*, from South Huntington avenue to Jamaica way. (Work not started.)

Engineering . . . . .	\$41 60	
Advertising . . . . .	2 67	
		<u>\$44 27</u>

\* *Centre street*, from South street to Spring street. Length, 6,331 linear feet. Area, 42,188 square yards. Grading, edgestone set and reset, Topeka pavement laid and artificial stone sidewalks constructed. (Unfinished.)

Engineering . . . . .	\$1,730 25
Inspection . . . . .	1,602 92
Engineering expense . . . . .	61 75
Advertising . . . . .	9 56
Templets . . . . .	10 00

Edgestone, 6,682 feet straight, 710 feet circular, 49 small and 2 large corners and 3 special stones . . . . .

14,671 42

Lumber and nails . . . . .

9 10

Expert services analysing materials, etc. . . . .

12 00

Teaming . . . . .

300 69

Labor, plank walks . . . . .

244 68

Labor, temporary crosswalk . . . . .

206 01

Labor, handling stock . . . . .

188 46

Amount paid to Antony Cefalo, under contract:

Removing trees, bushes,  
etc. . . . . \$800 00

3,164 cubic yards earth and  
rock excavation @  
\$2.75 . . . . . 8,701 00

Extra work — Make  
necessary excavation  
to lower house serv-  
ices of Water Serv-  
ice where cut is being  
made:

7½ days, foreman, @ \$8 . . . . . 61 00

7½ days, timekeeper, @  
\$4.80 . . . . . 36 60

7½ days, blacksmith, @  
\$5.60 . . . . . 42 70

75 days' labor @ \$5.60 . . . . . 420 00

Plus 15 per cent on  
\$560.30 . . . . . 84 05

Extra work — Lay tem-  
porary drain to spring  
as directed:

18 hours' labor @ 70c. . . . . 12 60

Plus 15 per cent on  
\$12.60 . . . . . 1 89

22 linear feet 6-inch drain  
pipe laid @ 36c. . . . . 7 92

<i>Carried forward</i> . . . . .	\$10,167 76	\$19,046 84
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\* Done in connection with Beech street and Belgrade avenue.

<i>Brought forward</i>	\$10,167 76	\$19,046 84
Extra work — Place surplus material from sewer excavation in cellar holes as directed:		
55 cubic yards material placed in cellar holes @ 75c.	41 25	
Extra Work — Excavate test pits at old wall at railroad bridge:		
44 hours, foreman, @ \$1	4 50	
22 hours' labor @ 70c.	15 40	
Plus 15 per cent on \$19.90	2 99	
	<hr/>	
Amount paid in 1919	\$10,231 88 6,409 00	3,822 90
Work completed August 16, 1920.		
Amount paid to West Roxbury Trap Company, under contract:		
Removing trees, bushes, etc.	\$700 00	
2,642 cubic yards earth excavation @ \$1.35	3,566 70	
	<hr/>	
Amount paid in 1919	\$4,266 70 3,626 69	640 01
Amount paid Rowe Contracting Company, under contract:		
Removing tree, bushes, etc.	\$12,020 00	
5,500 cubic yards earth excavation @ \$1.90	10,450 00	
300 tons crushed stone furnished, placed, watered and rolled @ \$3	900 00	
5,450 linear feet straight edge-stone set @ 30c.	1,635 00	
500 linear feet circular edge-stone and corners set @ 30c.	150 00	
1,900 linear feet existing edge-stone reset @ 30c.	570 00	
2,500 linear feet crushed stone and concrete foundation furnished and placed @ 30c.	750 00	
30 square yards existing granite block paving relaid, gravel joints, @ \$1.25	37 50	
25 square yards existing granite block paving relaid, gravel base, sand bed, grout joints, @ \$2	50 00	
	<hr/>	
<i>Carried forward</i>	\$26,562 00	\$23,509 75

<i>Brought forward</i> . . . . .	\$26,562 00	\$23,509 75
9,915 square yards concrete base and Topeka wearing surface furnished and laid @ \$4.20 . . . . .	41,643 00	
106 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.30 . . . . .	243 80	
61,200 square feet artificial stone foundation furnished and placed @ 8c. . . . .	4,896 00	
48,250 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 27c. . . . .	13,027 50	
1,800 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 30c. . . . .	540 00	
450 linear feet ground water drain furnished and laid @ \$1 . . . . .	450 00	
Constructing cap and fence . . . . .	850 00	
Constructing wall and fence . . . . .	1,900 00	
	<u>\$90,112 80</u>	
Less 15 per cent retained . . . . .	13,516 92	
		* 76,595 88
		<u>†\$100,105 63</u>
<i>Centre street, from Allandale street to South street. For details see under streets charged to reconstructing and repairing streets by contract.</i>		
Engineering . . . . .	\$416 41	
Inspection . . . . .	153 40	
Engineering expense . . . . .	23 60	
Advertising . . . . .	2 06	
Edgestone, 384 feet straight and 6 feet circular, Amount paid to Bermudez Company, under contract . . . . .	741 69	
	<u>‡ 8,053 37</u>	
		<u>‡ \$9,390 53</u>
<i>Charles street, from Beacon street to Cambridge street. To be widened. (Construction not started.)</i>		
Engineering . . . . .	\$282 38	
Engineering expense . . . . .	1 00	
Advertising . . . . .	1 70	
Teaming . . . . .	60 00	
Edgestone . . . . .	87 07	
	<u>\$432 15</u>	

\* Done in connection with Beech street and Belgrade avenue.

† \$25,000 of this amount charged to appropriation for reconstructing and repairing streets by contract.

‡ All money retained under contract deducted from charge to reconstructing and repairing streets by contract.



*Chelsea street*, from Foss street to Adams street. Street widened. (Work unfinished. Continued from 1919.) 101 feet edgestone reset, 183 square yards block paving relaid, 126 square yards artificial stone sidewalks constructed.

Engineering . . . . .	\$144 89	
Engineering expense . . . . .	80	
Labor, edgestone excavation . . . . .	137 95	
Labor, edgestone setting . . . . .	77 56	
Labor, sidewalk excavating . . . . .	45 11	
Labor, roadway excavating . . . . .	112 34	
Labor, roadway paving . . . . .	112 34	
Labor, constructing artificial stone sidewalk . . . . .	95 22	
Teaming . . . . .	262 00	
Lumber . . . . .	2 88	
Edgestone . . . . .	50 57	
Blocks, recut granite, 3,925 . . . . .	235 50	
Sand . . . . .	103 20	
Cement . . . . .	* 33 12	
Crushed stone . . . . .	72 02	
	<hr/>	
	\$1,485 50	
Cement bags returned . . . . .	69 00	
	<hr/>	\$1,416 50

*Chestnut Hill avenue*, from Commonwealth avenue to Beacon Park side. (Work not started.)

Engineering . . . . .	\$60 00	
	<hr/>	\$60 00

*Clarendon street*, from Stuart street to Columbus avenue. To be extended and bridge constructed over railroad tracks.

Engineering . . . . .	\$3,394 15	
Inspection . . . . .	238 97	
Advertising . . . . .	32 40	
Placing guy on post . . . . .	8 83	
Printing specifications . . . . .	141 88	
Blueprint paper . . . . .	29 04	
Drawing paper . . . . .	6 33	
Amount paid to John McCourt Company, under contract:		
Building Clarendon street bridge:		
8,480 linear feet piles furnished and driven @ 90c.,	\$7,632 00	
Other materials and work not called for by Item 1, 45 per cent of contract price,		
\$104,708 . . . . .	47,118 60	
	<hr/>	
	\$54,750 60	
15 per cent retained . . . . .	8,212 59	
	<hr/>	46,538 01

Amount paid to Coleman Brothers, under contract:		
Removal of concrete and steel structure over New York, New Haven & Hartford Railroad on Clarendon street.		
Contract price, . . . . .	4,300 00	
	<hr/>	\$54,689 61

\* Cement furnished not paid for until 1921.

*Cornell street*, from Orange street to Colberg avenue. (Work done in 1917.)

Final payment under contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 72</u>
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*Cummington street*, from Commonwealth avenue to Boston & Albany  
Railroad. Length, 268 linear feet. Area, 1,010 square yards.  
(Work started, but no payments made under contract.)

Engineering . . . . .	\$88 07
Advertising . . . . .	3 75
Edgestone, 155 feet straight, 19 feet circular, 7 small corners. . . . .	399 05
Templets . . . . .	15 00
	<u>\$505 87</u>

*Cushman road*, from Dustin street to Glencoe street. Length, 945 linear  
feet. Area, 2,820 square yards. Subgraded, edgestone set, sheet  
asphalt pavement laid on four (4) inch concrete base and artificial  
stone sidewalks constructed. (Unfinished.)

Engineering . . . . .	\$353 07
Inspection . . . . .	102 26
Engineering expense . . . . .	3 30
Advertising . . . . .	11 13
Edgestone, 1,214 feet straight, 85 feet circular, 10 small corners . . . . .	2,631 22
Templets . . . . .	20 00

Amount paid to John J. Lane, under contract:

120 cubic yards earth excava- tion @ \$2.25 . . . . .	\$2,720 25
4 cubic yards rock excava- tion @ \$12 . . . . .	48 00
1,202 linear feet straight edge- stone set @ 30c. . . . .	360 60
80 linear feet circular edge- stone set @ 35c. . . . .	28 00
7 square yards existing granite block paving re- laid, concrete base, sand bed and grout joints, @ \$4.50 . . . . .	31 50
1,996 square yards concrete base, bituminous concrete bin- der and asphalt wearing surface furnished and laid @ \$4.17 . . . . .	8,323 32
7,646 square feet artificial stone foundation furnished and placed @ 8c. . . . .	611 68
7,003 square feet artificial stone sidewalks, concrete base and wearing surface fur- nished and laid, @ 28c. . . . .	1,960 84
252 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 35c. . . . .	88 20
8 covers reset @ \$3 . . . . .	24 00

\$14,196 39

Less 15 per cent retained, 2,129 46

12,066 93

\$15,187 91

*Downer avenue*, from DeWolf street to Sawyer avenue. (Work done in 1917.)

Final payment on contract with Martino DeMatteo for work done in 1917 . . . . .	\$35 71
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*East Fourth street*, at northeast corner of K street. (Widened.) Circular edgestone set, wood block paving laid and granite block paving relaid.

Engineering . . . . .	\$22 67
Labor, edgestone excavating . . . . .	35 61
Labor, edgestone setting . . . . .	37 75
Labor, brick sidewalk relaid . . . . .	21 50
Labor, artificial stone sidewalk constructed . . . . .	12 50
Labor, wood block paving . . . . .	15 00
Labor, roadway excavating . . . . .	29 06
Labor, roadway paving . . . . .	20 64
Labor, concrete base . . . . .	44 80
Teaming . . . . .	118 50
Sand . . . . .	23 71
Cement . . . . .	1 95
Lumber . . . . .	3 72
Bricks . . . . .	6 00
Crushed stone . . . . .	31 40
Edgestone, circular . . . . .	135 66
	<hr/> \$560 47

*Easton street*, from North Harvard street to Mansfield street. Length, 974 linear feet. Area, 2,924 square yards. Edgestone set, sheet asphalt pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$462 04
Inspection . . . . .	128 95
Engineering expense . . . . .	14 95
Advertising . . . . .	3 64
Templets . . . . .	25 04
Edgestone, 1,644 feet straight, 18 small corners and 29 feet circular . . . . .	3,327 71
Teaming . . . . .	4 00

Amount paid to John J. Lane, under contract:

1,673 cubic yards earth excavation @ \$2.25 . . . . .	\$3,764 25
3 cubic yards rock excavation @ \$12 . . . . .	36 00
1,549 linear feet straight edgestone set @ 30c. . . . .	464 70
89 linear feet circular edgestone set @ 35c. . . . .	31 15
114 linear feet existing edgestone reset @ 40c. . . . .	45 60
65 square yards existing granite block paving relaid, gravel joints, @ \$1.25 . . . . .	81 25
7 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$4.50 . . . . .	31 50

<i>Carried forward</i> . . . . .	<hr/> \$4,454 45	<hr/> \$3,966 33
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<i>Brought forward</i> . . . . .	\$1,454 45	\$3,966 33
2,687 square yards concrete base, bituminous concrete binder and asphalt wearing surface furnished and laid @ \$4.17 . . . . .	11,204 79	
237 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.75 . . . . .	651 75	
11,432 square feet artificial stone foundation furnished and placed @ 8c. . . . .	914 56	
10,390 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c. . . . .	2,909 20	
543 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 35c. . . . .	190 05	
9 covers reset @ \$3 . . . . .	27 00	
1 Bradley head catch-basin reset @ \$5 . . . . .	5 00	
11 courses of brickwork laid @ 50c. . . . .	5 50	
	<hr/>	
	\$20,362 30	
Less 15 per cent retained,	3,054 34	
	<hr/>	
		17,307 96
		<hr/>
		<u>\$21,274 29</u>

*Elder street*, from Columbia road to Humphreys street. Length, 847 linear feet. Area, 2,484 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$290 21
Inspection . . . . .	239 28
Engineering expense . . . . .	4 80
Advertising . . . . .	3 60
Templets . . . . .	20 04
Edgestone, 591 feet straight, 18 feet circular and 6 small corners . . . . .	1,058 98
Teaming . . . . .	4 00
Amount paid to Central Construction Company, under contract:	
600 cubic yards earth excavation @ \$1.80 . . . . .	1,080 00
590 linear feet straight edgestone set @ 30c. . . . .	177 00
130 linear feet circular edgestone set @ 35c. . . . .	45 50
67 linear feet existing edgestone reset @ 35c. . . . .	23 45
	<hr/>
<i>Carried forward</i> . . . . .	\$1,325 95
	<hr/>
	\$1,620 91

<i>Brought forward</i>	\$1,325 95	\$1,620 91
4 square yards existing granite block paving relaid in edgings, concrete base, sand bed and grout joints, @ \$4	16 00	
2,533 square yards concrete base and Topeka wearing surface furnished and laid @ \$3.70	9,372 10	
4,557 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 24c.	1,093 68	
470 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 30c.	141 00	
23 linear feet curb furnished and laid @ \$1.70	39 10	
	<hr/>	
	\$11,987 83	
Less 15 per cent retained,	1,798 17	
	<hr/>	
		10,189 66
		<hr/>
		\$11,810 57

*Falkland terrace*, from Hobart street to Brooksdale road. Length, 662 linear feet. Area, 1,949 square yards. Graded, edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering	\$237 43
Inspection	104 27
Engineering expense	1 65
Templets	15 04
Edgestone, 1,272 feet straight, 46 feet 7 inches circular, 79 special stones	2,727 56
Teaming	4 00
Blocks	12 00
Amount paid to John J. Lane, under contract:	
Removing trees, bushes, etc.,	\$10 00
1,251 cubic yards earth excavation @ \$2.25	2,814 75
13 cubic yards rock excavation @ \$10	130 00
1,198 linear feet straight edgestone set @ 30c.	359 40
128 linear feet circular edgestone and corners set @ 35c.	44 80
667 linear feet crushed stone and concrete foundation furnished and placed @ 40c.	266 80
13½ square yards granite block paving hauled and laid, concrete base, sand bed and grout joints @ \$4.50	60 75
	<hr/>
<i>Carried forward</i>	\$3,686 50
	<hr/>
	\$3,101 95

<i>Brought forward</i> . . . . .	\$3,686 50	\$3,101 95
1,949 square yards concrete base and Topeka wearing surface furnished and laid @ \$4.05 . . . .	7,893 45	
8,733 square feet artificial stone foundation furnished and placed @ 7c. . . . .	611 31	
8,208 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 27c., . . . . .	2,216 16	
525 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 35c. . . . .	183 75	
1 dry well constructed. . . . .	25 00	
Extra work — Construct six (6) extra driveways not shown on plan:		
16 hours, edgestone setter, @ \$1.15 . . . . .	18 40	
48 hours, helper, @ 82c. . . . .	39 36	
8 hours' labor @ 70c. . . . .	5 60	
Plus 15 per cent on \$63.36, . . . . .	9 50	
9 hours, double team, @ \$1.50 . . . . .	13 50	
	<hr/>	
	\$14,702 53	
Less $\frac{1}{4}$ day use of city steam roller . . . . .	9 00	
	<hr/>	
		14,693 53
		<hr/>
		<u>\$17,795 48</u>

*Faneuil street*, from Bigelow street to Dunboy street. (Work not started.)

Engineering . . . . .	\$176 01
Engineering expense . . . . .	6 60
	<hr/>
	<u>\$182 61</u>

*Fargo street*, from B street to C street. Length, 533 linear feet. Area, 1,660 square yards. Subgrading, edgestone reset, roadway repaved with recut granite blocks on a six (6) inch concrete base, grout joints. (Unfinished.) (Work started, but no payment made on contract.)

Engineering . . . . .	\$186 50
Inspection . . . . .	65 19
Advertising . . . . .	8 05
Templets . . . . .	20 00
Engineering expense . . . . .	60
Blocks . . . . .	36 00
Corners . . . . .	6 00
	<hr/>
	<u>\$322 34</u>

*Farguhar street*, from Selwyn street to Centre street. Length, 938 linear feet. Area, 2,710 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$516 64
Inspection . . . . .	253 12
Engineering expense . . . . .	8 60
	<hr/>
<i>Carried forward</i> . . . . .	\$778 36

<i>Brought forward</i>	\$778 36
Advertising	4 20
Templets	13 84
Edgestone, 1,684 feet straight, 25 feet circular, 18 small corners	3,339 33
Teaming	2 00

Amount paid to Martino DeMatteo, under contract:

Removing trees, bushes, etc.	\$95 00
1,000 cubic yards earth excavation @ \$1.60	1,600 00
1,664 linear feet straight edgestone set @ 27c.	449 28
83 linear feet circular edgestone set @ 30c.	24 90
2,620 square yards concrete base and Topeka wearing surface furnished and laid @ \$3.60	9,432 00
100 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.10	210 00
11,360 square feet artificial stone foundation furnished and placed @ 10c.	1,136 00
10,500 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 22c.	2,310 00
530 square feet artificial stone driveways, concrete base and wearing surface furnished and laid, @ 50c.	265 00
Extra work—Haul straight edgestone and corners from South End Yard, Albany street.	
1,722 linear feet straight edgestone hauled from South End Yard, Albany street, @ 15c.	258 30

\$15,780 48

Less 15 per cent retained, 2,367 07

13,413 41

\$17,551 14

*Faywood avenue*, from Orient avenue to Tower street. (Work done in 1919.)

Engineering	\$26 50
Engineering expense	95
Cost of work done under contract with James Doherty in 1919	\$10,741 10
Amount paid in 1919	9,082 08

1,659 02

\$1,686 47

*Glenville avenue*, from Greylock road to Allston street. Length, 1,009 linear feet Area, 3,095 square yards. Edgestone set and reset, sheet asphalt pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$533 62
Inspection . . . . .	204 42
Engineering expense . . . . .	18 90
Advertising . . . . .	1 94
Templets . . . . .	18 60
Edgestone, 1,715 feet straight, 75 feet circular, 4 small corners. . . . .	3,462 95
Labor, handling stock . . . . .	50
Teaming . . . . .	4 00

Amount paid to John J. Lane, under contract:

1,228 cubic yards earth excavation @ \$2.25 . . . . .	\$2,763 00
7 cubic yards rock excavation @ \$12 . . . . .	84 00
1,277 linear feet straight edgestone set @ 30c. . . . .	383 10
504 linear feet circular edgestone set @ 35c. . . . .	176 40
69 linear feet existing edgestone reset @ 40c. . . . .	27 50
2 square yards existing granite block paving relaid, gravel joints, @ \$1.25 . . . . .	2 50
10½ square yards existing granite block paving relaid, granite base, sand bed, grout joints, @ \$4.50 . . . . .	47 25
2,820 square yards concrete base, bituminous concrete binder and asphalt wearing surface furnished and laid @ \$4.17, . . . . .	11,759 40
275 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.75 . . . . .	756 25
9,199 square feet artificial stone foundation furnished and placed @ 8c. . . . .	735 92
8,875 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 28c. . . . .	2,485 00
80 square feet artificial stone driveways, concrete base and wearing surface furnished and laid, @ 35c. . . . .	28 00
18 covers reset @ \$3 . . . . .	54 00
9 courses of brickwork laid @ 50c. . . . .	4 50

\$19,306 92

15 per cent retained . . . . . 2,896 04

16,410 88

\$20,655 81



*Granada avenue*, from Metropolitan avenue to Ethel street. (Work done in 1917.)

Final payment under contract with Martino DeMatteo for work done in 1917 . . . . .	\$35 72
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\* *Greenview avenue*, from Centre street to 415 feet southerly. (Work done in 1919.)

Cost of work done in 1919 under contract with John Kelly Company . . . . .	\$3,185 69
Amount paid in 1919 . . . . .	2,707 83
	<u>\$477 86</u>

*Grosvenor place*, from Cliff street southwesterly, southerly and southwesterly. Length, 281 linear feet. Area, 330 square yards. Edgestone set, granite block pavement laid, retaining wall and fence constructed and artificial stone sidewalks constructed.

Engineering . . . . .	\$253 29
Inspection . . . . .	240 34
Engineering expense . . . . .	11 25
Advertising . . . . .	6 50
Edgestone, 275 feet, 4 inches straight, 25 feet circular and 4 special . . . . .	601 39
Blocks, 15,810 old granite . . . . .	478 50
Amount paid to Joseph A. Singarella under contract:	
Removing trees, bushes, etc. . . . .	\$10 00
200 cubic yards earth excavation . . . . .	
@ \$3 . . . . .	600 00
5 cubic yards rock excavation . . . . .	
@ \$10 . . . . .	50 00
275 linear feet straight edgestone set @ 45c. . . . .	123 75
52 linear feet circular edgestone set @ 45c. . . . .	23 40
160 linear feet existing edgestone reset @ 40c. . . . .	64 00
49 linear feet concrete backing for edgestone furnished and placed @ 60c. . . . .	29 40
7 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	7 00
380 square yards granite block paving hauled and laid, gravel base, sand bed and grout joints, @ \$3 . . . . .	1,140 00
3 square yards existing brick sidewalks relaid @ \$1 . . . . .	3 00
820 square feet artificial stone foundation furnished and placed @ 5c. . . . .	41 00
820 square feet artificial stone sidewalks, concrete base, wearing surface furnished and laid @ 30c. . . . .	246 00
4 covers reset @ \$3 . . . . .	12 00
Building wall and fence . . . . .	1,200 00
	<u>\$3,549 55</u>

Less 15 per cent retained,	532 43
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<u>3,017 12</u>
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<u>\$4,608 39</u>
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*Halifax street*, from South Huntington avenue to Pond View avenue.  
(Work not started.)

Engineering . . . . .	\$39 00	
Advertising . . . . .	6 54	
		<u>\$45 54</u>

*Hamlin street*, from East Eighth street to Columbia road. Length, 266 linear feet. Area, 772 square yards. Edgestone set, topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$192 57
Inspection . . . . .	194 08
Engineering expense . . . . .	1 60
Advertising . . . . .	7 00
Templets . . . . .	13 84
Edgestone, 455 feet straight, 19 feet circular and 3 small corners . . . . .	929 85
Bricks . . . . .	3 75
Teaming . . . . .	4 00

Amount paid to John T. Shea, Jr., under contract:

Removing trees, bushes, etc. . . . .	\$10 00	
213 cubic yards earth excavation @ \$2.50 . . . . .	532 50	
6 cubic yards extra earth excavation @ \$3 . . . . .	18 00	
448 linear feet straight edgestone set @ 40c. . . . .	179 20	
29 linear feet circular edgestone set @ 45c. . . . .	13 05	
65 linear feet existing edgestone reset @ 45c. . . . .	29 25	
65 square yards existing granite block paving relaid, gravel joints, @ \$1, . . . . .	65 00	
8 square yards existing granite block paving relaid, gravel base, grout joints @ \$3.75 . . . . .	30 00	
772 square yards concrete base and topeka wearing surface furnished and laid @ 4.35. . . . .	3,358 20	
51 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.75 . . . . .	140 25	
35 square yards existing brick sidewalks relaid, @ \$1 . . . . .	35 00	
3,254 square feet artificial stone foundation furnished and placed @ 8c. . . . .	260 32	
3,019 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 30c. . . . .	905 70	
		<u>          </u>

<i>Carried forward</i> . . . . .	\$5,576 47	<u>\$1,346 69</u>
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<i>Brought forward</i>	\$5,576 47	\$1,346 69
235 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 35c.	82 25	
5 covers reset @ \$3	15 00	
Extra work — Haul side- walk bricks and corners for new driveways from South Boston Paving Yard.		
20 hours' labor @ 70c.	14 00	
Plus 15 per cent on \$14	2 10	
	<hr/>	5,689 82
		<u>\$7,036 51</u>

*Hampstead road*, from Arborway to 992 feet northwesterly. (Work done in 1919.)

Cost of work done under contract with John Kelly Company in 1919	\$14,554 82
Amount paid in 1919	<u>12,371 60</u>
	<u>\$2,183 22</u>

*Harrard street*, from Fabyan street to beyond Brookview street. Length 652 linear feet. Area, 2,452 square yards. Edgestone set, Topeka pavement laid, brick sidewalks laid on west side and artificial stone sidewalks constructed on west side. (Unfinished work from 1919.)

Engineering	\$147 05
Inspection	457 33
Engineering expense	3 50
Templets	16 82
Bricks, 41,286 old, sidewalk	603 89
Edgestone, 821 feet straight, 4 large and 4 small corners	1,323 38
Gravel	4 10
Teaming	3 50
Amount paid to Rowe Contracting Company, under contract:	
Removing trees, bushes, etc.	\$132 00
1,405 cubic yards earth excava- tion @ \$1.30	1,826 50
1,220 linear feet straight edge- stone and corners hauled and set @ 35c.,	427 00
84 linear feet existing edgestone reset @ 25c.	21 00
16 square yards existing granite block paving relaid, gravel joints, @ \$1	16 00
17 square yards existing granite block paving re- laid, concrete base, sand bed and grout joints, @ \$1.50	25 50
2,499 square yards concrete base and Topeka wear- ing surface furnished and laid @ \$2.75	6,872 25
<i>Carried forward</i>	<hr/> \$9,320 25
	<hr/> \$2,559 57

<i>Brought forward</i>	\$9,320 25	\$2,559 57
15 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$1.85	27 75	
531 square yards brick sidewalks hauled and laid @ 85c.	451 35	
3,902 square feet artificial stone foundation furnished and placed @ 2c.	78 04	
3,720 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 22c	818 40	
182 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 25c.	45 50	
14 covers reset @ \$3	42 00	
25 courses of brickwork laid @ 50c.	12 50	
Extra work — Remove 4 trees	400 00	
Extra work — Grade roadway between end of work and Hansborough street:		
144 hours' labor @ 70c.	100 80	
Plus 15 per cent on \$100.80	15 12	
Extra work Cut long edgestone to lay around curves:		
4 days, stonecutter @ \$8	32 00	
Plus 15 per cent on \$32	4 80	
Extra work — Rebuild 2 sewer manholes at 420 Harvard street:		
18 hours, subforeman, @ 80c,	14 40	
9 hours, mason, @ \$1	9 00	
9 hours, tender, @ 70c.	6 30	
54 hours' labor @ 65c.	35 10	
Plus 15 per cent on \$64.80,	9 72	
	<hr/>	
	\$11,423 03	
Less 5 per cent retained,	571 15	
	<hr/>	
	\$10,851 88	
Amount paid in 1919	1,267 35	
	<hr/>	
		9,584 <sup>7</sup> / <sub>53</sub>
		<hr/>
		<u>\$12,144 10</u>
<i>Havelock street</i> , from Blue Hill avenue to Morton street. Length, <sup>7</sup> 662 linear feet. Area, 1,958 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.		
Engineering		\$228 60
Inspection		79 26
		<hr/>
<i>Carried forward</i>		\$307 <sup>8</sup> / <sub>86</sub>

<i>Brought forward</i> . . . . .		\$307 86
Engineering expense . . . . .		8 50
Advertising . . . . .		2 67
Edgestone, 1,125 feet straight . . . . .		1,912 51
Amount paid to Rowe Contracting Company, under contract:		
897 cubic yards earth excavation @ \$1.90 . . . . .	\$1,704 30	
3.7 cubic yards rock excavation @ \$6 . . . . .	22 20	
1,221 linear feet straight edgestone and corners set @ 28c . . . . .	341 88	
46 linear feet existing edgestone reset @ 30c. . . . .	13 80	
11 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	11 00	
1,958 square yards concrete base and Topeka wearing surface furnished and laid @ \$3.60 . . . . .	7,048 80	
136 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.20 . . . . .	299 20	
8,269 square feet artificial stone foundation furnished and placed @ 6c. . . . .	496 14	
8,145 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 25c., . . . . .	2,036 25	
124 square feet artificial stone driveways concrete base and wearing surface furnished and laid @ 27c. . . . .	33 48	
11 covers reset @ \$3 . . . . .	33 00	
18 courses of brickwork laid @ 50c. . . . .	9 00	
	<hr/>	12,049 05
		<hr/> <u>\$14,280 59</u>

*Hill Top street*, from Granite avenue to Hallet street. (Work done in 1917.)

Final payment made on contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 71</u>
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*Holton street*, from Everett street to Antwerp street. (Work done in 1919.)

Engineering expense . . . . .	<u>\$0 20</u>
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*Hyde Park avenue*, from Metropolitan avenue to River street. Length, 5,454 linear feet. Area, 30,548 square yards. Edgestone set and reset, recut granite blocks laid on six-inch concrete base in car tracks, grout joints, Topeka pavement laid on six-inch concrete base. Unfinished.)

Engineering . . . . .	\$2,044	41
Inspection . . . . .	2,598	73
Engineering expense . . . . .	190	25
Templets . . . . .	37	80
Edgestone, 5,853 feet straight, 771 feet circular, 93 small corners, 4 large corners and 4 special stone . . . . .	10,336	17
Blocks, 131,770 recut granite . . . . .	7,906	00
Removing tree limbs . . . . .	26	70
Labor, lowering manholes . . . . .	351	02
Teaming . . . . .	24	95
Amount paid to John McCourt Company, under contract.		
3,474 square yards existing granite block paving recut and re- laid (in car tracks) con- crete base, sand bed and grout joints, @ \$4.48 . . . . .	\$15,563	52
2,317 square yards granite block recut (at Massachusetts avenue lot), hauled and laid in car tracks, concrete base, sand bed and grout joints, @ \$4.73 . . . . .	10,959	41
	\$26,522	93
Less 15 per cent retained, . . . . .	3,978	44
		<u>22,544 49</u>
Amount paid to Martino De Matteo, under contract.		
Removing trees, bush- es etc. . . . .	\$2,500	00
8,500 cubic yards earth excava- tion @ \$1.25 . . . . .	10,625	00
298 linear feet corners hauled and set @ 35c. . . . .	104	30
850 linear feet circular edge- stone set @ 25c. . . . .	212	50
3,253 linear feet existing edge- stone reset @ 25c. . . . .	813	25 <sup>1</sup>
600 square yards granite block paving, recut, hauled and laid, con- crete base, sand bed and grout joints @ \$3.75 . . . . .	2,250	00
25 square yards existing granite block paving relaid in driveways and edgings, concrete base, sand bed, grout joints, @ \$2.75 . . . . .	68	75
6,500 square yards concrete base and Topeka wear- ing surface furnished and laid @ \$2.95 . . . . .	19,175	00
11,850 square yards concrete base and Topeka wear- ing surface furnished and laid (unfinished @ \$1.25 . . . . .	14,812	50
Carried forward . . . . .	\$50,561	30
		<u>\$46,060 52</u>

<i>Brought forward</i>	\$50,561 30	\$46,060 52	
92,084 square feet artificial stone foundation furnished and placed @ 2c.	1,841 68		
84,322 square feet artificial stone sidewalks, concrete base and wearing sur- face furnished and laid @ 20c.	16,864 40		
7,762 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 30c.	2,328 60		
Extra work — Omit the hauling of straight edgestone from the South End yard, Al- bany street. A deduc- tion of nine (9) cents per linear foot is to be made from the price bid for hauling and setting straight edge- stone:			
5,912 linear feet straight edge- stone set but not hailed @ 26c.	1,537 12		
	\$73,133 10		
Less 15 per cent retained,	10,969 97		
	\$62,163 13		
Less amount paid in 1919,	2,008 12		
	<u>60,155 01</u>		
		<u>*\$106,215 53</u>	
<i>Imrie road, from Cambridge street to Allston street. (Work not started.)</i>			
Engineering . . . . .	\$41 00		
Advertising . . . . .	2 05		
	<u>\$43 05</u>		
<i>Justin road, from Bigelow street to Atkins street. (Work not started.)</i>			
Engineering expense . . . . .		<u>\$0 20</u>	
<i>Kenton road, from Washington street 844 feet easterly. (Work done in 1919.)</i>			
Engineering . . . . .	\$40 00		
Cost of work done under con- tract with Rowe Contracting Company in 1919 . . . . .	\$9,296 63		
Amount paid in 1919 . . . . .	\$7,902 14		
Less 5 per cent retained, 464 83	<u>8,366 97</u>		
		<u>929 66</u>	
		<u>\$969 66</u>	

\* \$49,511.97 of this amount charged to the appropriation for Hyde Park avenue, widening.

*Kilmarnock street*, from Boylston street to Queensberry street. (Work not started.)

Engineering . . . . .	\$77 00	
Engineering expense . . . . .	1 80	
Advertising . . . . .	2 06	
	<hr/>	<u>\$80 86</u>

*Langley road*, from Breck avenue 571 feet easterly. (Work done in 1917.)

Final payment on contract with Martino De Matteo for work done in 1917 . . . . .	<u>\$35 72</u>
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*Levant street*, from Geneva avenue to Topliff street. (Work done in 1919.)

Cost of work done under contract with McGuire and McGourty, Inc., in 1919 . . . . .	\$8,653 21	
Amount paid in 1919 . \$7,174 24		
Less amount retained, 100 00	<hr/>	
	7,274 24	
	<hr/>	
	\$1,378 97	
	<hr/>	<u>\$1,378 97</u>

*McCraw street*, from Belgrade avenue to West Roxbury Branch Railroad. Length, 131 linear feet. Area, 380 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$109 21	
Inspection . . . . .	61 36	
Engineering expense . . . . .	90	
Advertising . . . . .	4 20	
Edgestone . . . . .	28 00	
Steam roller . . . . .	4 50	
Amount paid to Martino De Matteo, under contract:		
Removing trees, bushes, etc. . . . .	\$5 00	
150 tons crushed stone furnished, placed, watered and rolled @ \$3.75 . . . . .	435 00	
130 square yards earth excavation @ \$1.60 . . . . .	208 00	
98 linear feet straight edgestone set @ 27c. . . . .	26 46	
33 linear feet circular edgestone set @ 30c. . . . .	9 90	
21 linear feet existing edgestone reset @ 30c. . . . .	6 30	
356 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.10 . . . . .	747 60	
1,128 square feet artificial stone foundation furnished and placed @ 10c. . . . .	112 80	
878 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 22c. . . . .	193 16	
	<hr/>	
Carried forward . . . . .	\$1,744 36	<u>\$208 17</u>



<i>Brought forward</i>	\$1,744 36	\$208 17
250 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 50c	125 00	
	<hr/>	
	\$1,869 22	
Less 15 per cent retained,	280 39	
	<hr/>	
		1,588 83
		<hr/>
		\$1,797 00

*Mascot street*, from Ballou avenue to Norfolk street. Length, 194 linear feet. Area, 410 square yards. Edgestone set, asphalt pavement laid and artificial stone sidewalks constructed. (Unfinished work from 1919.)

Engineering		\$10 86
Amount paid to Martino DeMatteo, under contract:		
Removing trees, etc.	\$10 00	
183 cubic yards earth excavation (not including excavation for artificial stone walls, steps, etc.), @ \$1.35	247 05	
256 linear feet straight edgestone and corners hauled and set @ 30c.,	76 80	
19 linear feet circular edgestone set @ 25c.	4 75	
54 linear feet existing edgestone reset @ 25c.	13 50	
421 square yards bituminous macadam surface furnished and placed @ \$1.20	505 20	
2,137 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 22c.	470 14	
192 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 35c.	67 20	
2,329 square feet artificial stone foundation furnished and placed @ 5c.	116 45	
4 covers reset @ \$3	12 00	
2 courses of brick work laid @ 50c.	1 00	
Artificial stone walls, steps and platforms built	2,900 00	
Extra work — Excavate rock to subgrade where directed:		
13 cubic yards rock excavation @ \$8	104 00	
	<hr/>	
<i>Carried forward</i>	\$4,528 09	\$10 86

<i>Brought forward</i>	\$4,528 09	\$10 86
Less amount paid in		
1919	3,160 94	
	<hr/>	1,367 15
		<u>\$1,378 01</u>
<i>Melton road</i> , from Wallingford road to Colonial road. (Work not started.)		
Engineering		\$49 00
Advertising		1 60
		<hr/>
		<u>\$50 60</u>
<i>Mt Ida road</i> , from 254 feet south of Marie street to Robinson street. Length, 886 linear feet. Area, 2,560 square yards. Edgestone set, asphalt pavement laid and artificial stone sidewalks constructed. (Unfinished work from 1919.)		
Engineering		\$40 00
Engineering expense		1 35
Amount paid to McGuire and McGourty, Inc., under contract:		
2,220 cubic yards earth excavation @ 78c.	\$1,731 60	
11 $\frac{8}{10}$ cubic yards rock excavation @ \$6	70 80	
1,438 linear feet straight edgestone and corners hauled and set @ 27c.	388 26	
50 linear feet circular edgestone set @ 25c.	12 50	
43 linear feet existing edgestone reset @ 20c.	8 60	
2 square yards existing granite block paving relaid, gravel joints, @ 75c.	1 50	
6 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$2.75	16 50	
2,629 square yards concrete base, bituminous concrete binder and asphalt wearing surface, furnished and laid, @ \$2.82	7,413 78	
9,287 square feet artificial stone foundation furnished and placed @ 2 $\frac{1}{2}$ c.	232 18	
9,195 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 20c.,	1,839 00	
92 square feet artificial stone driveways, concrete base and wearing surface furnished and laid, @ 29c.	26 68	
10 covers reset @ \$3.00	30 00	
21 courses of brick work laid @ 50c.	10 50	
	<hr/>	
<i>Carried forward</i>	\$11,781 90	\$41 35

<i>Brought forward</i> . . . . .	\$11,781 90	\$41 35	
Extra work — Furnish and lay 1-inch asphalt wearing surface 1½-inch bituminous concrete binder on existing macadam base in Mt. Ida road, from 254 feet south of Marie street to Robinson street:			
61 square yards bituminous binder and asphalt wearing surface furnished and laid on macadam base @ \$.25 . . . . .	137 25		
Extra work — Trim the base of concrete wall on Mt. Ida road, around Ronan Park, to conform with the grades of artificial stone sidewalks:			
58 hours' labor @ 57½c. . . . .	33 35		
Plus 15 per cent on \$33.35 . . . . .	5 00		
	<hr/>		
	\$11,957 50		
Less amount paid in 1919, . . . . .	9,741 54		
	<hr/>		
	\$2,215 96		
Less amount retained . . . . .	100 00		
	<hr/>		
		2,115 96	
		<hr/>	
			<u>2,157 31</u>
<i>Norfolk street</i> , widening from Corbet street to Blue Hill avenue. (Work done in 1918 and 1919.)			
Final payment for work done under contract with Warren Brothers Company, in 1919 . . . . .		\$266 14	
Materials . . . . .		39 44	
		<hr/>	
			<u>\$305 58</u>
<i>North Beacon street</i> , from Cambridge street to Market street. (Work done in 1918 and 1919.)			
Engineering expense . . . . .			<u>\$0 30</u>
<i>Oriole street</i> , from Bellevue street to Emmons road. (Work not started.)			
Engineering . . . . .		\$68 00	
Engineering expense . . . . .		80	
Advertising . . . . .		5 47	
		<hr/>	
			<u>\$74 27</u>
<i>Patten street</i> , from Hyde Park avenue to Bourne street.			
Final payment on contract with Martino DeMatteo for work done in 1917 . . . . .			<u>\$35 72</u>
<i>Perthshire road</i> , from Bigelow street to Matchett street. (Work done in 1919.)			
Engineering expense . . . . .			<u>\$0 20</u>

*Pontiac street*, from Hillside street to Tremont street. (Work done in 1917 and 1918.)

Engineering . . . . .	\$13 37	
Final payment on contract with J. C. Coleman & Sons Company, for work done in 1917 and 1918 . . . . .	756 15	
	<hr/>	<u>\$769 52</u>

*Province street*, widening, from Province court northeasterly. (Work not started.)

Advertising . . . . .	<u>\$1 60</u>
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*Public Alley No. 71<sup>6</sup>*, from East Brookline street to East Newton street. Length, 372 linear feet. Area, 553 square yards. Edgestone set, granite block pavement laid, artificial stone sidewalks and concrete retaining walls constructed.

Engineering . . . . .	\$434 32	
Inspection . . . . .	255 44	
Engineering expense . . . . .	19 75	
Advertising . . . . .	5 20	
Edgestone, 458 feet straight and 1 large corner	877 67	
Blocks, 22,300 recut granite . . . . .	1,338 00	
Amount paid to John Landis, under contract:		
379 cubic yards earth excavation @ \$2 . . . . .	\$758 00	
450 linear feet straight edgestone set @ 35c. . . . .	157 50	
6 linear feet circular edgestone set @ 35c. . . . .	2 10	
135 linear feet existing edgestone reset @ 35c. . . . .	47 25	
553 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$4.50 . . . . .	2,488 50	
17 square yards existing brick sidewalks relaid @ 75c . . . . .	12 75	
1,602 square feet artificial stone driveways furnished and placed @ 7c. . . . .	112 14	
1,806 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 30c. . . . .	541 80	
9 cubic yards concrete wall furnished and placed @ \$20 . . . . .	180 00	
20 cubic yards concrete wall furnished and placed @ \$14 . . . . .	280 00	
Extra work — Raise and set to grade edgestone buried below subgrade:		
134 linear feet edgestone raised and set @ \$1 . . . . .	134 00	
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<i>Carried forward</i> . . . . .	\$1,714 04	\$2,930 38
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<i>Brought forward</i> . . . . .	\$4,714 04	\$2,930 38	
Less 15 per cent retained,	707 11		
	<hr/>	4,006 93	
			<u>\$6,937 31</u>

*Public Alley No. 818*, from St. Stephen street about 690 feet westerly. Length, 693 linear feet. Area, 616 square yards. Edgestone set, granite block pavement laid, artificial stone sidewalks and concrete retaining walls constructed.

Engineering . . . . .	\$463 24
Inspection . . . . .	374 73
Engineering expense . . . . .	15 95
Advertising . . . . .	3 50
Edgestone, 1,283 feet straight, 2 small corners	2,451 45
Blocks, 26,000 recut granite . . . . .	1,560 00
Labor, handling stock . . . . .	153 96

Amount paid to John Landis, under contract:

Removing trees, bushes, etc. . . . .	\$5 00
834 cubic yards earth excavation @ \$2 . . . . .	1,668 00
1,359 linear feet straight edgestone set @ 35c. . . . .	475 65
20 linear feet circular edgestone set @ 35c. . . . .	7 00
16 linear feet existing edgestone reset @ 35c. . . . .	5 60
378 linear feet concrete backing for edgestone furnished and placed @ 55c. . . . .	207 90
616 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$4.50 . . . . .	2,772 00
5 square yards existing brick sidewalks relaid @ 75c. . . . .	3 75
3,059 square feet artificial stone foundation furnished and placed @ 7c. . . . .	214 13
3,338 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 30c. . . . .	1,001 40
12 cubic yards concrete wall furnished and placed @ \$20 . . . . .	240 00
30 cubic yards concrete wall furnished and placed @ \$14 . . . . .	420 00
Extra work — Excavate buried edgestone, make closures and cut sewer sheathing:	
19 hours, edgestone setter, @ \$1.10 . . . . .	20 90
45 hours' labor @ 65c. . . . .	29 25
8 hours, stonecutter, @ \$1.10 . . . . .	8 80
Plus 15 per cent on \$58.95 . . . . .	8 84

<i>Carried forward</i> . . . . .	\$7,088 22	\$5,022 83
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<i>Brought forward</i> . . . . .	\$7,088 22	\$5,022 83
3 hours, double team, @ \$1	3 00	
Extra work — Rehandle and place in position edgestone left on line of work:		
1,336 linear feet edgestone re- handled and placed @		
15c. . . . .	200 40	
	<hr/>	
	\$7,291 62	
Less 15 per cent retained,	1,093 74	
	<hr/>	6,197 88

Amount paid to John McCourt Company,  
under contract:

Removing trees, bushes, etc. . . . .	\$1 25	
166 cubic yards earth excava- tion @ \$1.70 . . . . .	282 20	
361 linear feet straight edge- stone and corners hauled and set @ 35c. . . . .	126 35	
4 linear feet circular edge- stone and special stone set @ 35c. . . . .	1 40	
373 linear feet concrete back- ing for edgestone fur- nished and placed @		
35c. . . . .	130 55	
170 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$3,	510 00	
1 cover reset @ \$3 . . . . .	3 00	
1 course of brickwork laid @ 50c. . . . .	50	
Extra work — Cut sewer sheathing and puddle trenches were directed:		
18 hours' labor @ 55c. . . . .	9 90	
Plus 15 per cent on \$9.90	1 49	
	<hr/>	
	\$1,066 64	
Less amount paid in 1919	895 90	
	<hr/>	170 74

\$11,391 45

*Public Alley No. 819, from Westland avenue to Batavia street. (Work done in 1919.)*

Cost of work done under contract with John

Mc Court Company in 1919 . . . . .	\$1,341 78	
Amount paid in 1919 . . . . .	1,065 59	
	<hr/>	\$276 19
Engineering . . . . .	3 55	
Engineering expense . . . . .	30	
	<hr/>	\$280 04

\$280 04

*Public Alley No. 820, from Huntington avenue to St. Botolph street.  
(Work done in 1919.)*

Engineering . . . . .	\$3 56	
Cost of work done under contract with John McCourt Company in 1919 . . . . .	\$1,759 50	
Amount paid in 1919 . . . . .	1,489 13	
		270 37
		<u>\$273 93</u>

*Public Alley No. 821, from Gainsborough street to Public Alley No. 820.*  
(Work done in 1919.)

Engineering . . . . .	\$3 56	
Cost of work done under contract with John McCourt Company in 1919 . . . . .	\$3,114 89	
Amount paid in 1919 . . . . .	2,642 29	
		472 60
		<u>\$476 16</u>

*Public alley, from Massachusetts avenue to Hemenway street.* (Work not started.)

Engineering . . . . .	\$94 50	
Engineering expense . . . . .	2 60	
Advertising . . . . .	6 30	
		<u>\$103 40</u>

*Reservoir pond, at northeast corner of Beacon street. Street widened, graded, and tar macadam roadway constructed. Length, 200 feet.*  
Area, 1,484 square yards. (Unfinished work from 1919.)

Engineering . . . . .	\$38 50	
Labor, edgestone excavating . . . . .	66 12	
Labor, edgestone setting . . . . .	92 61	
Labor, roadway excavating . . . . .	1,653 19	
Labor, macadam spreading . . . . .	211 76	
Labor, sidewalk excavating . . . . .	55 11	
Labor, sidewalk resurfacing with crushed stone, Teaming . . . . .	8 00	
Steam roller picking . . . . .	857 88	
Steam roller rolling . . . . .	45 00	
Tar binder, 2,500 gallons . . . . .	81 00	
Crushed stone, 288 tons . . . . .	362 50	
Edgestone, circular, 125 feet 8 inches . . . . .	707 07	
	268 92	
		<u>\$4,447 66</u>

*Rockdale street, from Savin Hill avenue to Springdale street.* (Work not started.)

Engineering . . . . .	<u>\$5 00</u>
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*Rowell street, from Hancock street to Cushing avenue.* (Work done in 1917.)

Final payment under contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 71</u>
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*St. Rose street, from South street 416 feet westerly.* (Work done in 1917.)

Final payment under contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 71</u>
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*South street*, at Centre street. Length, 309 linear feet. Area, 1,164 square yards. Edgestone reset, filling, sheet asphalt pavement laid and artificial stone sidewalks constructed. (Unfinished.)

Engineering . . . . .	\$320 71
Engineering expense . . . . .	14 95
Advertising . . . . .	9 31
Labor, handling stock . . . . .	31 88

Amount paid to The Bermudez Company,  
under contract:

Removing trees, bushes, etc. . . . .	\$1,500 00
1,613 cubic yards gravel filling furnished @ \$2.50 . . . . .	4,032 50
245 tons crushed stone fur- nished, placed, watered and rolled @ \$4 . . . . .	980 00
6 linear feet straight edge- stone set @ 45c. . . . .	2 70
616 linear feet existing edge- stone reset @ 40c. . . . .	246 40
25 square yards existing gran- ite block gutters relaid, gravel joints, @ \$1.50 . . . . .	37 50
700 square yards bituminous concrete binder and as- phalt wearing surface furnished and laid on macadam foundation @ \$2.29 . . . . .	2,023 00
1,725 square feet artificial stone foundation furnished and placed @ 12c. . . . .	206 88

\$9,028 98

Less 15 per cent retained, 1,354 35

7,674 63

\$8,051 48

*Stark street*, from Cambridge street to Roland street. (Work not started.)

Engineering . . . . .	\$46 00
Engineering expense . . . . .	80
Advertising . . . . .	1 60

\$48 40

*Stuart street*, from Clarendon street to Trinity place. Length, 268 linear feet. Area, 1,371 square yards. Subgraded, edgestone set, bitulithic pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$296 41
Inspection . . . . .	406 93
Engineering expense . . . . .	18 65
Advertising . . . . .	7 30
Labor, handling stock . . . . .	16 19
Bricks . . . . .	45 00
Blocks, 4,300 old granite . . . . .	129 00
Edgestone, 4'0 feet straight, 50 feet circular, . . . . .	868 64

Amount paid to Warren Brothers Company,  
under contract:

276 cubic yards earth exca- vation @ \$3 . . . . .	\$828 00
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*Carried forward* . . . . .

\$28 00

\$1,788 12



<i>Brought forward</i> . . . . .	\$828 00	\$1,788 82
119.5 cubic yards gravel filling furnished @ \$2.50 . . . . .	298 75	
20 cubic yards granite, brick and concrete walls and foundation excavated, removed, @ \$5 . . . . .	100 00	
380 linear feet straight edge-stone set @ 45c. . . . .	171 00	
51 linear feet circular edge-stone set @ 45c. . . . .	22 95	
280 linear feet existing edge-stone reset @ 45c. . . . .	126 00	
11 square yards extra concrete base furnished and placed in Trinity place @ \$12 . . . . .	132 00	
330 square yards existing granite block paving relaid, gravel joints, @ \$1 . . . . .	330 00	
1,200 square yards concrete base and bitulithic wearing surface furnished and laid @ \$4.38 . . . . .	5,256 00	
171 square yards bituminous wearing surface furnished and laid in Trinity place @ \$2.29, . . . . .	391 59	
109 square yards existing brick sidewalks relaid @ \$1 . . . . .	109 00	
5,191 square feet artificial stone foundation furnished and placed @ 12c. . . . .	622 92	
5,191 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 29c. . . . .	1,505 39	
6 covers reset @ \$3 . . . . .	18 00	
2 courses of brickwork laid @ 50c. . . . .	1 00	
	<hr/>	
	\$9,912 60	
Less 15 per cent retained, . . . . .	1,486 89	
	<hr/>	
	8,425 71	
	<hr/>	
		<u>\$10,213 83</u>

*Stuart street*, from Berkeley street to Columbus avenue. (Work not started.)

Engineering . . . . . \$52 83

*Tebroc street*, from Bowdoin street to Levant street. (Work done in 1919.)

Cost of work done under contract with McGuire & McGourty, Inc., in 1919 . . . . .	\$2,373 05	
Amount paid in 1919 . . . . .	\$2,030 71	
Amount retained . . . . .	100 00	
	<hr/>	
	2,130 71	
	<hr/>	
		<u>\$242 34</u>

*Thorndike street*, from Commonwealth avenue to Brookline line. (Work not started.)

Engineering . . . . .	\$64 00	
Engineering expense . . . . .	80	
Advertising . . . . .	1 60	
		<u>\$66 40</u>

*Tovar street*, from Bowdoin street to Cameron street. (Work done in 1919.)

Cost of work done under contract with McGuire & McGourty, Inc., for work done in 1919 . . . . .		\$1,834 60
Amount paid in 1919 . . . . .	\$1,492 87	
Amount retained . . . . .	100 00	
		<u>1,592 87</u>
		<u>\$241 73</u>

*Tremont street*, (westerly side), from Park street to Boylston street.)  
Length, 1,671 linear feet. Area, 1,958 square yards. Edgestone  
reset, roadway widened and wood block pavement laid.

Engineering . . . . .	\$531 31	
Inspection . . . . .	194 08	
Engineering expense . . . . .	8 40	
Advertising . . . . .	5 10	
Expert services, analyzing blocks, etc. . . . .	98 59	
Edgestone, 8,921 feet straight and 35 feet circular . . . . .	1,596 81	
Blocks, recut granite . . . . .	10 50	
Labor, handling stock . . . . .	20 00	
Labor, Transit Department . . . . .	76 02	
Amount paid to James Doherty, under contract:		
54 square yards existing con- crete base excavated and removed @ 85c. . . . .	\$45 90	
20 square yards existing con- crete base chipped and removed @ \$1 . . . . .	20 00	
30 linear feet straight edge- stone set in gravel @ 61c. . . . .	18 30	
844 linear feet straight edge- stone set in mortar @ 80c. . . . .	675 20	
39 linear feet circular edge- stone set in gravel @ 65c. . . . .	25 35	
36 linear feet circular edge- stone set in mortar @ 80c. . . . .	28 80	
100 linear feet existing edge- stone set in gravel @ 47c. . . . .	47 00	
724 linear feet existing edge- stone set in mortar @ 65c. . . . .	470 60	
874 linear feet edgestone with new bed cut and pointed @ 75c. . . . .	655 50	
<i>Carried forward</i> . . . . .	\$1,986 65	\$2,540 81

<i>Brought forward</i> . . . . .	\$1,986 65	\$2,540 81
100 cubic yards concrete back- ing for edgestone fur- nished and placed @ \$15.75 . . . . .	1,575 00	
181 cubic yards concrete base furnished and laid @ \$12.50 . . . . .	2,262 50	
7 square yards granite block paving hauled and laid, grout joints, etc., @ \$2.75 . . . . .	19 25	
1,433 square yards wood block pavement furnished and laid, mortar bed, sand joint filler, etc., @ \$5.70 . . . . .	8,168 10	
525 square yards existing wood block pavement relaid, mortar bed, sand joint filler, etc., @ \$1.29 . . . . .	677 25	
3 covers reset @ \$3 . . . . .	9 00	
	<hr/>	
	\$14,697 75	
Less 15 per cent retained,	2,204 66	
	<hr/>	
		12,493 09
		<hr/>
		\$15,033 90

*Vista street*, from Augustus avenue to Malvern road. (Work done in 1917.)  
Final payment under contract for work done in 1917 by  
Martino DeMatteo . . . . . \$35 71

*Victory road*, from Neponset avenue to Houghton street. (Unfinished  
work from 1919.) Street widened. Length, 416 feet. Area, 1,640  
square yards. Edgestone set and reset, 4-inch asphalt macadam  
roadway constructed and gutter paved with grout joints.

Labor, edgestone excavating . . . . .	\$42 50
Labor, edgestone setting . . . . .	153 00
Labor, gutter excavating . . . . .	28 50
Labor, gutter paving . . . . .	67 00
Labor, roadway excavating . . . . .	358 03
Labor, roadway construction . . . . .	408 90
Labor, crosswalk excavating . . . . .	40 00
Labor, crosswalk relaying . . . . .	23 50
Labor, cleaning . . . . .	12 00
Teaming . . . . .	397 97
Steam roller, rolling . . . . .	161 50
Steam roller, picking . . . . .	50 50
Flagging . . . . .	4 40
Gravel . . . . .	19 00
Sand . . . . .	30 38
Bermudez asphalt, 3,650 gallons . . . . .	905 20
Crushed stone . . . . .	982 85
Cement . . . . .	3 68
Lumber . . . . .	120 75
Edgestone, 101 feet straight, 53 feet circular, . . . . .	201 15
Nails . . . . .	7 89
	<hr/>
	\$4,018 70

*Wachusett street*, from Walk Hill street to Eldridge road. (Work done in 1919.)

Engineering . . . . .	\$12 50	
Cost of work done under con-		
tract with John Kelly Company		
in 1919 . . . . .	\$11,973 76	
Amount paid in 1919 . . . . .	10,177 70	
	<hr/>	1,796 06
		<hr/>
		<u>\$1,808 56</u>

*Washington street* (south side), from Tremont street to Nonantum street. Roadway widened. Edgestone reset and asphalt macadam roadway constructed. (Unfinished.)

Advertising . . . . .	\$1 60	
Labor, edgestone excavating . . . . .	21 00	
Labor, edgestone resetting . . . . .	53 00	
Labor, gutter excavating . . . . .	7 00	
Labor, gutter repaving . . . . .	27 50	
Labor, roadway excavating . . . . .	259 07	
Labor, roadway construction . . . . .	89 67	
Labor, crosswalks . . . . .	49 62	
Labor, crushed stone sidewalks . . . . .	107 72	
Cement . . . . .	4 88	
Blocks . . . . .	3 30	
Sand . . . . .	17 82	
Edgestone, 105 feet 6 inches circular . . . . .	280 63	
Steam roller, rolling . . . . .	54 00	
Teaming . . . . .	317 00	
	<hr/>	\$1,293 81
		<u><u>\$1,293 81</u></u>

*Wellington Hill street*, westerly from Blue Hill avenue. (Unfinished work from 1919.) Roadway widened. Edgestone set. Bermudez asphalt roadway constructed, 937 square yards, 6 inches deep.

Labor, roadway excavating . . . . .	\$50 48	
Labor, roadway constructing . . . . .	204 09	
Labor, crosswalk . . . . .	24 00	
Teaming . . . . .	94 21	
Steam roller, rolling . . . . .	24 00	
Steam roller, picking . . . . .	8 00	
Crushed stone, 239 tons . . . . .	655 87	
Bermudez asphalt, 2,600 . . . . .	624 00	
	<hr/>	\$1,684 65
		<u><u>\$1,684 65</u></u>

*Wensley street*, from Buckminster street to Bickford avenue. (Work done in 1917.)

Final payment under contract with Martino DeMatteo for work done in 1917 . . . . .	<u>\$35 71</u>
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*Whitten street*, from Dorchester avenue easterly. (Work not started.)

Engineering . . . . .	\$132 00	
Engineering expense . . . . .	1 80	
Advertising . . . . .	2 06	
	<hr/>	\$135 86
		<u><u>\$135 86</u></u>

*Wilbur street*, from Cushing avenue to Upham avenue. Length, 335 linear feet. Area, 828 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$359	80	
Inspection . . . . .	117	38	
Engineering expense . . . . .	2	70	
Advertising . . . . .	5	30	
Templets . . . . .	15	00	
Teaming . . . . .	2	00	
Edgestone, 515 feet straight, 9 feet circular and 1 special . . . . .	906	09	
Lumber . . . . .	5	04	
Amount paid to Central Construction Com- pany under contract:			
550 cubic yards earth excava- tion @ \$1.80 . . . . .	\$990	00	
514 linear feet straight edge- stone set @ 30c. . . . .	154	20	
21 linear feet circular edge- stone set @ 35c. . . . .	7	35	
117 linear feet existing edge- stone reset @ 35c. . . . .	40	95	
828 square yards concrete base and Topeka wearing sur- face furnished and laid @ \$3.70 . . . . .	3,063	60	
32 square yards bituminous wearing surface fur- nished and laid on ma- cadam foundation @ \$2.30 . . . . .	73	60	
1,800 square feet artificial stone foundation furnished and placed @ 5c. . . . .	90	00	
	\$4,419	70	
Less 15 per cent retained,	662	96	
	<u>3,756</u>	<u>74</u>	
			<u>\$5,170 05</u>

*Wilcock street*, from Blue Hill avenue to Morton street. Length, 779 linear feet. Area, 2,279 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering . . . . .	\$199	12	
Inspection . . . . .	209	67	
Engineering expense . . . . .	8	85	
Advertising . . . . .	2	67	
Edgestone, 1,431 feet straight, 26 feet circular and 2 small corners. . . . .	2,498	57	
Sand . . . . .	8	50	
Templets . . . . .	13	12	
Teaming . . . . .	4	00	
Amount paid to Rowe Contracting Company under contract:			
1,180 cubic yards earth excava- tion @ \$1.90 . . . . .	\$2,242	00	
11½ cubic yards rock excava- tion @ \$6 . . . . .	67	50	
1,444 linear feet straight edge- stone and corners set @ 28c. . . . .	404	32	
27 linear feet circular edge- stone set @ 35c. . . . .	9	45	
<i>Carried forward</i> . . . . .	\$2,723	27	
	<u>\$3,944</u>	<u>50</u>	

<i>Brought forward</i>	\$2,723 27	\$3,944 50
11 linear feet existing edge-stone reset @ 30c.	3 30	
19 square yards existing granite block paving relaid, gravel joints, @ \$1,	19 00	
2,279 square yards concrete base and Topeka wearing surface furnished and laid @ \$3.60	8,204 40	
137 square yards bituminous wearing surface furnished and laid on macadam foundation @ \$2.20	301 40	
9,626 square feet artificial stone foundation furnished and placed @ 6c.	577 56	
9,379 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 25c.	2,344 75	
247 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 27c.	66 69	
9 covers reset @ \$3	27 00	
	<hr/>	14,267 37
		<hr/> <u>\$17,211 87</u>

*William Jackson avenue*, from Chestnut Hill avenue to Academy Hill road. Length, 500 linear feet. Area, 957 square yards. Sub-graded, edgestone set, sheet asphalt pavement laid and artificial stone sidewalks constructed.

Engineering	\$230 31
Inspection	63 24
Engineering expense	5 50
Advertising	1 94
Templets	20 04
Teaming	4 00
Edgestone, 904 feet straight, 3 special and 12 small corners	1,853 27
Amount paid to John J. Lane, under contract:	
Removing trees, bushes, etc.	\$50 00
500 cubic yards earth excavation @ \$2.25	1,125 00
51½ cubic yards rock excavation @ \$12	618 00
894 linear feet straight edgestone set @ 30c.	268 20
78 linear feet circular edgestone set @ 35c.	27 30
1 linear foot existing edgestone reset @ 40c.	40
5 square yards granite block paving relaid, concrete base, sand bed, grout joints, @ \$4.50	22 50
	<hr/>
<i>Carried forward</i>	\$2,111 40
	<hr/> <u>\$2,178 30</u>

<i>Brought forward</i>	\$2,111 40	\$2,178 30
957 square yards concrete base, bituminous concrete binder and asphalt wearing surface, fur- nished and laid, @ \$4.17,	3,990 69	
3,373 square feet artificial stone foundation furnished and placed @ 8c.	269 84	
3,120 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 35c.,	88 55	
10 covers reset @ \$3	30 00	
20 courses of brick work laid @ 50c.	10 00	
	<hr/>	
	\$7,374 08	
Less 15 per cent retained,	1,106 11	
	<hr/>	
		6,267 97
		<hr/>
		\$8,446 27

*Wollaston terrace*, from Woodrow avenue to Jones avenue. Length, 313 linear feet. Area, 595 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed.

Engineering	\$156 86
Inspection	99 71
Engineering expense	6 00
Advertising	9 46
Templets	13 84
Edgestone, 523 feet straight, 19 feet circular, 2 small corners and 2 special.	969 22
Teaming	4 00
Amount paid to Rowe Contracting Company, under contract:	
Removing trees, bushes, etc.	\$3 00
320 cubic yards earth excava- tion @ \$1.90	608 00
549 linear feet straight edge- stone and corners set @ 28c	153 72
31 linear feet circular edge- stone set @ 35c.	10 85
72 linear feet existing edge- stone reset @ 30c.	21 60
3 square yards existing granite block paving relaid, gravel joints, @ \$1	3 00
595 square yards concrete base and Topeka wearing surface furnished and laid @ \$3.60	2,142 00
31 square yards bituminous wearing surface fur- nished and laid on ma- cadam foundation @ \$2.20	68 20

<i>Carried forward</i>	<hr/>	<hr/>
	\$3,010 37	\$1,259 09

<i>Brought forward</i> . . . . .	\$3,010 37	\$1,259 09
2,187 square feet artificial stone foundation furnished and placed @ 6c. . . . .	131 22	
2,115 square feet artificial stone sidewalks, concrete base and wearing sur- face furnished and laid @ 25c. . . . .	528 75	
72 square feet artificial stone driveways, concrete base and wearing sur- face furnished and laid @ 27c. . . . .	19 44	
7 covers reset @ \$3 . . . . .	21 00	
25 courses of brickwork laid @ 50c. . . . .	12 50	
	<hr/>	3,725 28
		<hr/> <u>\$4,984 37</u>

*Wyoming street*, from Waubeno street to Humboldt avenue. (Work done in 1917.)

Final payment and contract with Martino De Matteo for work done in 1917 . . . . .	<u>\$35 71</u>
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*York street*, from Glenway street to Greenwood street. (Work done in 1919.)

Engineering . . . . .	\$43 52	
Inspection . . . . .	25 52	
Cost of work under contract with Rowe Contracting Com- pany done in 1919 . . . . .	\$5,555 93	
Amount paid in 1919 . . . . .	<u>4,293 57</u>	
		1,262 36
		<hr/> <u>\$1,331 40</u>

*Zamora street*, from Perkins street to Castleton street. (Work not started.)

Engineering . . . . .	\$22 00	
Advertising . . . . .	2 67	
	<hr/>	<u>\$24 67</u>



# PUBLIC WORKS DEPARTMENT.

STATE OF TEXAS, COUNTY OF DALLAS, 1906. TAXING SERVICE FOR THE YEAR CHARGED TO APPROPRIATION. MAINTENANCE.

NAME OF ROAD OR TRAIL.	SECTION.	QUANTITY OF MATERIALS USED.	UNIT PRICE.	AMOUNT.
1. 1/2 MILE OF ROAD FROM 1/2 MILE TO 1 MILE.	1.	1000	1.00	1000.00
2. 1/2 MILE OF ROAD FROM 1 MILE TO 1 1/2 MILES.	2.	1000	1.00	1000.00
3. 1/2 MILE OF ROAD FROM 1 1/2 MILES TO 2 MILES.	3.	1000	1.00	1000.00
4. 1/2 MILE OF ROAD FROM 2 MILES TO 2 1/2 MILES.	4.	1000	1.00	1000.00
5. 1/2 MILE OF ROAD FROM 2 1/2 MILES TO 3 MILES.	5.	1000	1.00	1000.00
6. 1/2 MILE OF ROAD FROM 3 MILES TO 3 1/2 MILES.	6.	1000	1.00	1000.00
7. 1/2 MILE OF ROAD FROM 3 1/2 MILES TO 4 MILES.	7.	1000	1.00	1000.00
8. 1/2 MILE OF ROAD FROM 4 MILES TO 4 1/2 MILES.	8.	1000	1.00	1000.00
9. 1/2 MILE OF ROAD FROM 4 1/2 MILES TO 5 MILES.	9.	1000	1.00	1000.00
10. 1/2 MILE OF ROAD FROM 5 MILES TO 5 1/2 MILES.	10.	1000	1.00	1000.00
11. 1/2 MILE OF ROAD FROM 5 1/2 MILES TO 6 MILES.	11.	1000	1.00	1000.00
12. 1/2 MILE OF ROAD FROM 6 MILES TO 6 1/2 MILES.	12.	1000	1.00	1000.00
13. 1/2 MILE OF ROAD FROM 6 1/2 MILES TO 7 MILES.	13.	1000	1.00	1000.00
14. 1/2 MILE OF ROAD FROM 7 MILES TO 7 1/2 MILES.	14.	1000	1.00	1000.00
15. 1/2 MILE OF ROAD FROM 7 1/2 MILES TO 8 MILES.	15.	1000	1.00	1000.00
16. 1/2 MILE OF ROAD FROM 8 MILES TO 8 1/2 MILES.	16.	1000	1.00	1000.00
17. 1/2 MILE OF ROAD FROM 8 1/2 MILES TO 9 MILES.	17.	1000	1.00	1000.00
18. 1/2 MILE OF ROAD FROM 9 MILES TO 9 1/2 MILES.	18.	1000	1.00	1000.00
19. 1/2 MILE OF ROAD FROM 9 1/2 MILES TO 10 MILES.	19.	1000	1.00	1000.00
20. 1/2 MILE OF ROAD FROM 10 MILES TO 10 1/2 MILES.	20.	1000	1.00	1000.00
21. 1/2 MILE OF ROAD FROM 10 1/2 MILES TO 11 MILES.	21.	1000	1.00	1000.00
22. 1/2 MILE OF ROAD FROM 11 MILES TO 11 1/2 MILES.	22.	1000	1.00	1000.00
23. 1/2 MILE OF ROAD FROM 11 1/2 MILES TO 12 MILES.	23.	1000	1.00	1000.00
24. 1/2 MILE OF ROAD FROM 12 MILES TO 12 1/2 MILES.	24.	1000	1.00	1000.00
25. 1/2 MILE OF ROAD FROM 12 1/2 MILES TO 13 MILES.	25.	1000	1.00	1000.00
26. 1/2 MILE OF ROAD FROM 13 MILES TO 13 1/2 MILES.	26.	1000	1.00	1000.00
27. 1/2 MILE OF ROAD FROM 13 1/2 MILES TO 14 MILES.	27.	1000	1.00	1000.00
28. 1/2 MILE OF ROAD FROM 14 MILES TO 14 1/2 MILES.	28.	1000	1.00	1000.00
29. 1/2 MILE OF ROAD FROM 14 1/2 MILES TO 15 MILES.	29.	1000	1.00	1000.00
30. 1/2 MILE OF ROAD FROM 15 MILES TO 15 1/2 MILES.	30.	1000	1.00	1000.00
31. 1/2 MILE OF ROAD FROM 15 1/2 MILES TO 16 MILES.	31.	1000	1.00	1000.00
32. 1/2 MILE OF ROAD FROM 16 MILES TO 16 1/2 MILES.	32.	1000	1.00	1000.00
33. 1/2 MILE OF ROAD FROM 16 1/2 MILES TO 17 MILES.	33.	1000	1.00	1000.00
34. 1/2 MILE OF ROAD FROM 17 MILES TO 17 1/2 MILES.	34.	1000	1.00	1000.00
35. 1/2 MILE OF ROAD FROM 17 1/2 MILES TO 18 MILES.	35.	1000	1.00	1000.00
36. 1/2 MILE OF ROAD FROM 18 MILES TO 18 1/2 MILES.	36.	1000	1.00	1000.00
37. 1/2 MILE OF ROAD FROM 18 1/2 MILES TO 19 MILES.	37.	1000	1.00	1000.00
38. 1/2 MILE OF ROAD FROM 19 MILES TO 19 1/2 MILES.	38.	1000	1.00	1000.00
39. 1/2 MILE OF ROAD FROM 19 1/2 MILES TO 20 MILES.	39.	1000	1.00	1000.00
40. 1/2 MILE OF ROAD FROM 20 MILES TO 20 1/2 MILES.	40.	1000	1.00	1000.00
41. 1/2 MILE OF ROAD FROM 20 1/2 MILES TO 21 MILES.	41.	1000	1.00	1000.00
42. 1/2 MILE OF ROAD FROM 21 MILES TO 21 1/2 MILES.	42.	1000	1.00	1000.00
43. 1/2 MILE OF ROAD FROM 21 1/2 MILES TO 22 MILES.	43.	1000	1.00	1000.00
44. 1/2 MILE OF ROAD FROM 22 MILES TO 22 1/2 MILES.	44.	1000	1.00	1000.00
45. 1/2 MILE OF ROAD FROM 22 1/2 MILES TO 23 MILES.	45.	1000	1.00	1000.00
46. 1/2 MILE OF ROAD FROM 23 MILES TO 23 1/2 MILES.	46.	1000	1.00	1000.00
47. 1/2 MILE OF ROAD FROM 23 1/2 MILES TO 24 MILES.	47.	1000	1.00	1000.00
48. 1/2 MILE OF ROAD FROM 24 MILES TO 24 1/2 MILES.	48.	1000	1.00	1000.00
49. 1/2 MILE OF ROAD FROM 24 1/2 MILES TO 25 MILES.	49.	1000	1.00	1000.00
50. 1/2 MILE OF ROAD FROM 25 MILES TO 25 1/2 MILES.	50.	1000	1.00	1000.00
51. 1/2 MILE OF ROAD FROM 25 1/2 MILES TO 26 MILES.	51.	1000	1.00	1000.00
52. 1/2 MILE OF ROAD FROM 26 MILES TO 26 1/2 MILES.	52.	1000	1.00	1000.00
53. 1/2 MILE OF ROAD FROM 26 1/2 MILES TO 27 MILES.	53.	1000	1.00	1000.00
54. 1/2 MILE OF ROAD FROM 27 MILES TO 27 1/2 MILES.	54.	1000	1.00	1000.00
55. 1/2 MILE OF ROAD FROM 27 1/2 MILES TO 28 MILES.	55.	1000	1.00	1000.00
56. 1/2 MILE OF ROAD FROM 28 MILES TO 28 1/2 MILES.	56.	1000	1.00	1000.00
57. 1/2 MILE OF ROAD FROM 28 1/2 MILES TO 29 MILES.	57.	1000	1.00	1000.00
58. 1/2 MILE OF ROAD FROM 29 MILES TO 29 1/2 MILES.	58.	1000	1.00	1000.00
59. 1/2 MILE OF ROAD FROM 29 1/2 MILES TO 30 MILES.	59.	1000	1.00	1000.00
60. 1/2 MILE OF ROAD FROM 30 MILES TO 30 1/2 MILES.	60.	1000	1.00	1000.00
61. 1/2 MILE OF ROAD FROM 30 1/2 MILES TO 31 MILES.	61.	1000	1.00	1000.00
62. 1/2 MILE OF ROAD FROM 31 MILES TO 31 1/2 MILES.	62.	1000	1.00	1000.00
63. 1/2 MILE OF ROAD FROM 31 1/2 MILES TO 32 MILES.	63.	1000	1.00	1000.00
64. 1/2 MILE OF ROAD FROM 32 MILES TO 32 1/2 MILES.	64.	1000	1.00	1000.00
65. 1/2 MILE OF ROAD FROM 32 1/2 MILES TO 33 MILES.	65.	1000	1.00	1000.00
66. 1/2 MILE OF ROAD FROM 33 MILES TO 33 1/2 MILES.	66.	1000	1.00	1000.00
67. 1/2 MILE OF ROAD FROM 33 1/2 MILES TO 34 MILES.	67.	1000	1.00	1000.00
68. 1/2 MILE OF ROAD FROM 34 MILES TO 34 1/2 MILES.	68.	1000	1.00	1000.00
69. 1/2 MILE OF ROAD FROM 34 1/2 MILES TO 35 MILES.	69.	1000	1.00	1000.00
70. 1/2 MILE OF ROAD FROM 35 MILES TO 35 1/2 MILES.	70.	1000	1.00	1000.00
71. 1/2 MILE OF ROAD FROM 35 1/2 MILES TO 36 MILES.	71.	1000	1.00	1000.00
72. 1/2 MILE OF ROAD FROM 36 MILES TO 36 1/2 MILES.	72.	1000	1.00	1000.00
73. 1/2 MILE OF ROAD FROM 36 1/2 MILES TO 37 MILES.	73.	1000	1.00	1000.00
74. 1/2 MILE OF ROAD FROM 37 MILES TO 37 1/2 MILES.	74.	1000	1.00	1000.00
75. 1/2 MILE OF ROAD FROM 37 1/2 MILES TO 38 MILES.	75.	1000	1.00	1000.00
76. 1/2 MILE OF ROAD FROM 38 MILES TO 38 1/2 MILES.	76.	1000	1.00	1000.00
77. 1/2 MILE OF ROAD FROM 38 1/2 MILES TO 39 MILES.	77.	1000	1.00	1000.00
78. 1/2 MILE OF ROAD FROM 39 MILES TO 39 1/2 MILES.	78.	1000	1.00	1000.00
79. 1/2 MILE OF ROAD FROM 39 1/2 MILES TO 40 MILES.	79.	1000	1.00	1000.00
80. 1/2 MILE OF ROAD FROM 40 MILES TO 40 1/2 MILES.	80.	1000	1.00	1000.00
81. 1/2 MILE OF ROAD FROM 40 1/2 MILES TO 41 MILES.	81.	1000	1.00	1000.00
82. 1/2 MILE OF ROAD FROM 41 MILES TO 41 1/2 MILES.	82.	1000	1.00	1000.00
83. 1/2 MILE OF ROAD FROM 41 1/2 MILES TO 42 MILES.	83.	1000	1.00	1000.00
84. 1/2 MILE OF ROAD FROM 42 MILES TO 42 1/2 MILES.	84.	1000	1.00	1000.00
85. 1/2 MILE OF ROAD FROM 42 1/2 MILES TO 43 MILES.	85.	1000	1.00	1000.00
86. 1/2 MILE OF ROAD FROM 43 MILES TO 43 1/2 MILES.	86.	1000	1.00	1000.00
87. 1/2 MILE OF ROAD FROM 43 1/2 MILES TO 44 MILES.	87.	1000	1.00	1000.00
88. 1/2 MILE OF ROAD FROM 44 MILES TO 44 1/2 MILES.	88.	1000	1.00	1000.00
89. 1/2 MILE OF ROAD FROM 44 1/2 MILES TO 45 MILES.	89.	1000	1.00	1000.00
90. 1/2 MILE OF ROAD FROM 45 MILES TO 45 1/2 MILES.	90.	1000	1.00	1000.00
91. 1/2 MILE OF ROAD FROM 45 1/2 MILES TO 46 MILES.	91.	1000	1.00	1000.00
92. 1/2 MILE OF ROAD FROM 46 MILES TO 46 1/2 MILES.	92.	1000	1.00	1000.00
93. 1/2 MILE OF ROAD FROM 46 1/2 MILES TO 47 MILES.	93.	1000	1.00	1000.00
94. 1/2 MILE OF ROAD FROM 47 MILES TO 47 1/2 MILES.	94.	1000	1.00	1000.00
95. 1/2 MILE OF ROAD FROM 47 1/2 MILES TO 48 MILES.	95.	1000	1.00	1000.00
96. 1/2 MILE OF ROAD FROM 48 MILES TO 48 1/2 MILES.	96.	1000	1.00	1000.00
97. 1/2 MILE OF ROAD FROM 48 1/2 MILES TO 49 MILES.	97.	1000	1.00	1000.00
98. 1/2 MILE OF ROAD FROM 49 MILES TO 49 1/2 MILES.	98.	1000	1.00	1000.00
99. 1/2 MILE OF ROAD FROM 49 1/2 MILES TO 50 MILES.	99.	1000	1.00	1000.00
100. 1/2 MILE OF ROAD FROM 50 MILES TO 50 1/2 MILES.	100.	1000	1.00	1000.00







## RECAPITULATION OF STREET WORK.

## Maintenance.

STREETS.	Limits.	Amounts.
Adams street. ....	At Cedar Grove Cemetery. ....	\$300 00
Adams street. ....	Pierce square to Cedar Grove Cemetery. ....	824 10
Ashmont street. ....	Carruth street to Adams street. ....	4,680 09
Beacon street. ....	Cleveland circle to Newton line. ....	679 09
Blue Hill avenue. ....	Glenway street to Talbot avenue. ....	3,301 21
Blue Hill avenue. ....	Grove Hall to Seaver street. ....	3,510 89
Boylston street. ....	Arlington street to Exeter street. ....	828 17
Brackett street. ....	Washington street to Faneuil street. ....	129 76
Canterbury street. ....	Ashland street to Morton street. ....	6,084 29
Canterbury street. ....	Morton street to Angell street. ....	1,410 42
Carter street. ....	Cambridge street to Roland street. ....	1,192 00
Chapman street. ....	Main street 100 feet westerly. ....	532 52
Charles street. ....	Revere street to Cambridge street. ....	134 15
Chelsea street. ....	Saratoga street to Addison street. ....	3,379 73
Chickatawbut street. ....	Neponset avenue to Glide street. ....	2,217 91
Columbia road. ....	142 feet east of bridge to Old Colony avenue. ....	897 34
Columbia road. ....	Mercer street to I street. ....	13,232 27
Columbia road. ....	Newman street to Preble street. ....	928 83
Condor street. ....	Glendon street to Putnam street. ....	1,458 49
Corey street. ....	Moulton street to Medford street; Medford street, Corey street to Tufts street; Tufts street, Vine street to Medford street; Vine street, Tufts street to Moulton street. ....	4,644 31
Covington street. ....	East Eighth street to Columbia road. ....	90 30
Cross street. ....	Bartlett street to High street. ....	404 32
Cushing avenue. ....	Columbia road to Sawyer avenue. ....	11,912 50
Dana avenue. ....	Footbridge (iron gratings). ....	24 00
Dexter street. ....	Ellery street to Dorchester avenue. ....	22 40
Dimock street. ....	Washington street to Columbus avenue. ....	2,908 96
E street. ....	West Fourth to West Sixth street. ....	143 79
E street. ....	Old Colony avenue to West Ninth street. ....	66 27
East Brookline street. ....	Harrison avenue to Albany street. ....	2,587 77
East Second street. ....	K street to O street. ....	963 43
Ellery street. ....	Southampton street to Boston street. ....	34 00
Everett street. ....	Cleveland avenue to bridge over railroad. ....	1,672 80
Carried forward. ....		\$71,196 11

## Maintenance.— Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$71,196 11
Fairmount street.....	Milton avenue to Morton street.....	2,607 70
Flagg street.....	Washington street to Reed street.....	1,735 68
Franklin street.....	Lincoln street to North Harvard street.....	794 39
G street.....	East Eighth street to Columbia road.....	85 31
G street.....	East Broadway to Thomas park.....	189 19
Goodale road.....	Blue Hill avenue to end of street.....	47 85
Gray street.....	Chelsea street to Water street.....	1,398 72
Harvard street.....	Glenway street to Esmond street.....	1,730 41
Harvard street.....	Morton street to Brookview street.....	124 85
Harvard street.....	Morton street to Blue Hill avenue.....	1,673 52
Havre street.....	Sumner street to Meridian street.....	3,352 92
Hobart street.....	Brooks street to Hobson street.....	900 67
Hobart street.....	Hobson street to Falkland terrace.....	107 63
Hobson street.....	Faneuil street to Hobart street.....	358 86
Hunnewell street.....	Champney street to Atkins street.....	775 42
Hyde Park avenue.....	Milton street to Glenwood avenue.....	1,284 34
Island street.....	Gerard street to Hampden street.....	2,079 76
Kneeland street.....	Harrison avenue to Albany street.....	1,054 68
Lagrange street.....	Washington street to Newton line.....	10,332 51
Leeds street.....	Woodward street to Dorchester avenue.....	62 25
Main street.....	Railroad bridge to Somerville line.....	42 00
Massachusetts avenue.....	Washington street to Harrison avenue.....	4,740 07
Mead street.....	Russell street to Main street.....	31 11
Melford street.....	(See Corey street.)	
Mercer street.....	Telegraph street to Dorchester street.....	78 13
Montfern avenue.....	Washington street to Faneuil street.....	154 84
Moss Hill road.....	Pond street to Woodland road.....	2,796 31
Neponset avenue.....	Minot street to Chickatawbut street.....	265 71
Newcomb street.....	Washington street to Harrison avenue.....	1,038 18
Newton street.....	Brooks street to Charlesview street.....	409 94
North Beacon street...	Market street to Parsons street.....	906 62
Oak Square avenue.....	Washington street to Faneuil street.....	203 02
Orchard street.....	Eustis street to Orchard Park street.....	413 25
Orchard Park street...	Adams street to Ambrose street.....	1,684 55
Paris street.....	Sumner street to Meridian street.....	2,305 37
Pierce avenue.....	Adams street to Plain street.....	2,045 85
<i>Carried forward</i> .....		\$119,007 72

## Maintenance.— Concluded.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$119,007 72
Pond street.....	East Cottage street to Columbia road.....	630 38
Pond street.....	Richwood street to Brookline line.....	1,608 07
Prescott street.....	Hampden street to Eastis street.....	445 08
Reading street.....	Kemble street to Southampton street.....	3,140 74
Reed street.....	Northampton street to Thorndike street.....	1,670 29
St. Martin street.....	Medford street 160 feet southerly.....	561 10
Sanford street.....	Washington street to Morton street.....	147 85
School street.....	Main street to Bartlett street.....	3,412 23
South street.....	Centre street to railroad station.....	2,354 24
Southampton street.....	Midland Division to Boston Division Bridge.....	1,010 35
Stacey street.....	Main street 100 feet easterly.....	318 45
Stratton street.....	Blue Hill avenue to Lyford street.....	388 73
Tufts street.....	(See Corey street.)	
Vine street.....	(See Corey street.)	
Washington street.....	Rutherford avenue to Harvard street.....	1,667 72
West Canton street....	Shawmut avenue to Tremont street.....	2,306 87
West Fifth street.....	C street to E street.....	257 60
Western avenue.....	Waverly street to North Harvard street.....	8,436 53
Woodland road.....	Moss Hill road to Pond street.....	1,093 28
Woodlawn street.....	Hyde Park avenue to Forest Hills Cemetery.....	1,282 82
Total.....		\$149,740 05
Less amount due reconstructing and repairing streets by contract.....		4,828 52
Total.....		\$144,911 53
Amount due from Granolithic Sidewalks.....	\$441 00	
Amount due from Highways, Making of.....	14,890 76	
Amount due from Street Improvements.....	39,593 07	
		54,924 83
Total.....		\$199,836 36

## Charged to Special Appropriations.

	Amounts.
* Belgrade avenue extension and Beech street widening.....	\$9,963 06
* Hyde Park avenue, widening.....	49,511 97
Total.....	\$59,475 03

\* See, also, Highways, Making of.

## Charged to Appropriation for Granolithic Sidewalks.

STREETS.	Limits.	Amounts.
Abbott street.....	Front of Nos. 2, 4, 6, and 26.....	\$189 65
Ashfield street.....	Walter street to Fairview street.....	8,604 20
Ashmont street.....	North side, from 186 feet west of Neponset avenue to Train street.....	3,186 58
Beech street.....	West Roxbury parkway to Hobson street.....	726 86
Blakeville street.....	Bowdoin street to Olney street.....	58 22
Blue Hill avenue.....	East side, Fremont street 170 feet south.....	51 80
Bowdoin avenue.....	In front of Nos. 64 and 66.....	374 70
Broadway.....	South side, Washington street to Shawmut avenue.....	714 37
Brooks street.....	Hobart street to Faneuil street.....	11,037 32
Congreve street.....	South street to Centre street.....	8,697 32
Euelid street.....	Washington street to Wentworth street.....	23 90
Faulkner street.....	At Boston Elevated Railway property.....	132 82
Gray street.....	Berkeley street to Clarendon street.....	30
Hastings street.....	Centre street to Montview street.....	12,950 04
Judson street.....	From Brookford street to Julian street.....	5 00
Linden street.....	Brighton avenue to Commonwealth avenue.....	3,507 72
Neponset avenue.....	West side, in front of Nos. 3 to 15, and 29 to 35.....	1,976 08
Olney street.....	North side, in front of Nos. 7 and 9.....	207 44
Pearl street.....	Dorchester avenue to Pleasant street.....	421 41
Pleasant street.....	East side from Victoria street 100 feet northerly.....	37 26
Rockwell street.....	Washington street to Milton avenue.....	510 97
Rosseter street.....	From No. 20 to Bullard street.....	690 05
Victoria street.....	North side, from Pleasant street 200 feet easterly.....	67 85
Wales street.....	From Blue Hill avenue to Harvard street.....	570 66
Walk Hill street.....	East side, from Hyde Park avenue to Wenham street....	777 72
Total.....		\$55,520 24
Less amount due to Paving Service.....	\$441 00	
Less amount due to Street Improvements.....	1,395 08	
Total.....		1,836 08
		\$53,684 16

## Charged to Appropriation for Reconstructing and Repairing Streets by Contract.

STREETS.	Limits.	Amounts.
Adams street.....	King street to Minot street.....	\$394 37
Amory street.....	Green street to 140 feet north of Atherton street.....	4,662 76
Carried forward.....		\$5,057 13



**Charged to Appropriation for Reconstructing and Repairing Streets  
by Contract.—Continued.**

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$5,057 13
Arlington street.....	Market street across Leicester street.....	3,289 91
Artificial stone side-walk *	Repairs and rebates.....	7,362 50
Asphalt and bitulithic pavements repaired.*		81,820 59
Atlantic avenue.....	South Market street to Commercial street.....	12 00
Beacon street.....	Massachusetts avenue to Raleigh street.....	46,417 98
Beacon street.....	Chestnut Hill avenue (Cleveland Circle).....	411 38
Bennington street.....	From Central square to Day square.....	5,860 65
Berkeley street.....	Columbus avenue to Providence street.....	181 00
Blackstone street.....	Clinton street to Haymarket square.....	32,327 27
Border street.....	North Ferry to Central square.....	245 10
Bowdoin street.....	Mt. Ida road to Topliff street.....	19 00
Boylston street.....	Amory street to Centre street.....	512 55
Cambridge street.....	North Russell street to Charles street.....	9 00
Cambridge street.....	Brighton avenue to Henshaw street.....	12 73
Centre street †.....	Allandale street to South street.....	56,333 36
Centre street †.....	Forbes street to Boylston street.....	1,516 55
Centre street †.....	South street to Spring street.....	25,000 00
Centre street.....	Columbus avenue to Hyde square.....	320 07
Centre street.....	Eliot street, across Allandale street.....	190 91
Chambers street.....	Green street to Cambridge street.....	195 72
Charles street.....	Fruit street to Allen street.....	20,480 21
Chestnut Hill avenue..	See Beacon street.	
Columbia road.....	Hancock street to Blue Hill avenue.....	35 20
Columbus avenue.....	Roxbury street to Heath street.....	188 87
Commercial street.....	Fleet street to Hanover street.....	12 00
Commercial street.....	Hanover street to Causeway street.....	24 00
Conant street.....	Huntington avenue to Parker street.....	1,621 50
Devonshire street.....	Water street to Franklin street.....	14,996 09
Dorchester avenue.....	Park street to Peabody square.....	262 89
Dorchester avenue.....	Andrew square to Savin Hill avenue.....	62 43
Dorchester avenue.....	Summer street to Dorchester Avenue Bridge.....	5 60
Dorchester avenue.....	Dorchester Avenue Bridge to West Second street.....	17,742 69
Dorchester street.....	West Broadway to West Eighth street.....	90 02
Dudley street.....	Alexander street to Stoughton street.....	32,724 37
<i>Carried forward</i> .....		\$355,341 27

\* See, also, Schedule A. † See Street Improvements. ‡ See Highways, Making of.

**Charged to Appropriation for Reconstructing and Repairing Streets  
by Contract.—Continued.**

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$355,341 27
Expert services.....		892 75
East Broadway.....	Dorchester street to L street.....	12 00
East First street.....	H street, across Summer street.....	17 30
East Fourth street.....	K street, across P street.....	14,716 38
East and West Newton streets.....		30
Exeter street.....	Boylston street to Commonwealth avenue.....	30
Federal street.....	Milk street to Dewey square.....	7,858 57
Franklin street.....	60 feet west of Devonshire street to Broad street.....	12,085 61
Friend street.....	Union street to Causeway street.....	10,703 38
Green street.....	Washington street, across Call street.....	4,151 44
Green street.....	Call street to Centre street.....	197 41
Greenwich street.....	Westminister street to Warwick street.....	15
Guild row.....	Dudley street to Roxbury street.....	8 80
Humboldt avenue.....	Walnut avenue to Seaver street.....	950 85
Huntington avenue.....	Jamaicaway.....	1,523 93
John Eliot square.....		349 15
Kilby street.....	State street to Milk street.....	12 00
LaGrange street.....	Washington street to Tremont street.....	87 80
Main street.....	City square across Alford street.....	58,139 31
Market street.....	Washington street, across Western avenue.....	1,447 57
Mt. Vernon street.....	Joy street to West Cedar street.....	14,913 98
Newbury street.....	Arlington street to Fairfield street.....	28 90
Northampton street.....	Washington street to Albany street.....	326 29
Parker street.....	Conant street to Tremont street.....	1,294 15
Pleasant street.....	East Cottage street to Stoughton street.....	20,759 13
Pleasant street.....	Stoughton street to Savin Hill avenue.....	20,324 28
Portland street.....	Hanover street to Causeway street.....	141 90
Ralston street.....	Boston street, 85 feet easterly (north side).....	3,932 08
Richmond street.....	Hanover street to Atlantic avenue.....	163 09
River street.....	Bridge over Providence Railroad across Everett square.....	515 44
Roxbury street.....	Kent street to John Eliot square.....	34 45
Rutherford avenue.....	Cambridge street to Chapman street.....	97,934 87
Saratoga street.....	Chelsea street to Bennington street.....	39 12
Shirley street.....	Massachusetts avenue, 400 feet southerly.....	30
Smith street.....	Huntington avenue to St. Alphonsus street.....	1,167 71
<i>Carried forward</i> .....		\$630,071 96

**Charged to Appropriation for Reconstructing and Repairing Streets  
by Contract.—Concluded.**

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$630,071 96
Smith street.....	Phillips street to Parker street.....	832 81
Southampton street...	Albany street to Massachusetts avenue.....	105 48
Summer street.....	Fort Point channel to bridge over railroad.....	45
Sussex street.....	Hammond street to Warwick street.....	15
Tremont street.....	Dover street to Northampton street.....	140,106 23
Tremont street.....	Common street to Castle street.....	30
Tremont street.....	Hammond street to William Pynehon square.....	67 60
Union Park street.....	North side, from Washington street to Harrison avenue..	1,287 18
Warwick street.....	Hammond street to Ruggles street.....	10 15
Washington street....	Market street across Tremont street.....	47,065 12
Washington street....	Beach street across Kneeland street.....	4,674 92
Washington street....	Forest Hills to Archdale road.....	3 00
Washington street....	Archdale road to 75 feet south of Corinth street.....	108,675 49
Westminster street....	Hammond street to Ruggles street.....	15
Weston street.....	Warwick street to Tremont street.....	8 15
Williams street.....	Washington street to Westminster street.....	15
Windsor street.....	Shawmut avenue to Cabot street.....	15
Worcester street and Worcester sq.....	Harrison avenue to Columbus avenue.....	4,881 09
Total.....		<u>\$937,790 53</u>
Amount due from Paving Service.....	\$4,828 52	
Amount due from Highways, Making of.....	7 25	
Amount due from Street Improvements.....	11 35	
		4,847 12
Total.....		<u>\$942,637 65</u>

**Charged to Appropriation for Street Improvements.**

STREETS.	Limits.	Amounts.
Adams street.....	Dudley street to Hampden street.....	\$1,861 26
Algonquin street.....	Harvard street to Washington street.....	2,056 18
Allston street.....	Bunker Hill street to Medford street.....	3,231 36
Ambrose street.....	Albany street to Chadwick street.....	953 21
Astor street.....	Hemenway street to Bickerstaff street.....	3,142 16
<i>Carried forward</i> ....		<u>\$11,244 17</u>

## Charged to Appropriation for Street Improvements.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$11,244 17
Austin street.....	Main street to Seminary place.....	1,436 93
B street.....	West Broadway to West Seventh street.....	11,412 47
Babson street.....	Norfolk street to Blue Hill avenue.....	6,799 71
Belmont street.....	Bunker Hill street to Medford street.....	2,697 16
Blue Hill avenue.....	In front of 1140 and 1158.....	30 68
Boynton street.....	South street to Call street.....	450 00
Bradlee street.....	Washington street to School street.....	1,696 52
Brookford street.....	Blue Hill avenue to Howard avenue.....	7,073 10
Brooks street.....	Lexington street to Chelsea street.....	3,585 52
Brooks street.....	Hobart street to Charles River Reservation.....	4,756 07
Bunker Hill street....	Jackson street to Edgeworth street (west side).....	688 27
Bunker Hill street....	Bates street to Chelsea street.....	431 57
Burnett street.....	Washington street to Washington street.....	5,692 89
Calumet street.....	Tremont street to St. Alphonsus street.....	8,054 61
Canterbury street.....	Blue Hill avenue to Angell street.....	4,562 44
Cedar street.....	River street to Manchester street.....	7,718 23
Centre street *.....	Forbes street to Boylston street.....	10,057 66
Chadwick street.....	Hampden street to Ambrose street.....	2,131 65
Chambers street.....	Green street to Cambridge street.....	736 85
Clifton street.....	Dudley street to Shirley street.....	9,723 16
Codman street.....	Wessex street to Milwood street.....	5,610 08
Cottage street.....	Marginal street to Porter street.....	10,032 65
Dundee street.....	Massachusetts avenue to Dalton street.....	1,758 51
East Cottage street....	Columbia road to railroad bridge.....	1,460 47
East Cottage street....	Dorchester avenue to Pleasant street.....	718 40
East Lenox street....	Washington street to Fellows street.....	1,880 21
East Third street....	H street to L street.....	6,409 05
Fellows street.....	Hunneman street to Northampton street.....	3,441 92
Freeport street.....	Dorchester avenue to Greenwood street.....	7,020 34
Geneva avenue.....	Bowdoin street to Dorchester avenue.....	13,203 29
Gerard street.....	Norfolk street to George street.....	5,766 44
Harvard street.....	Deering road to 600 feet beyond Walk Hill street.....	3,163 69
Harvard square.....	Harvard street to Harvard street.....	1,444 21
High street.....	Pleasant street to School street.....	9,214 16
Humphreys street.....	Dudley street to East Cottage street.....	5,518 30
Hyde Park avenue....	Ashland street to Metropolitan avenue.....	3,990 24
<i>Carried forward</i> .....		\$181,611 62

\* See Granolithic sidewalks.

## Charged to Appropriation for Street Improvements.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$181,611 62
Hyde Park avenue.....	River street to Glenwood avenue.....	728 10
Ivanhoe street.....	West Dedham street to West Canton street.....	565 11
Jeffries street.....	Marginal street to Maverick street.....	2,948 38
Jerome street.....	Hancock street to Everett street.....	2,224 66
Kneeland street.....	Atlantic avenue to Lincoln street.....	1,399 42
La Grange street.....	Centre street to Landseer street.....	3,168 45
Lamartine street.....	Wyman street to Boylston street.....	15,696 92
Macadam road repairs, .....		42,334 23
Mall street.....	Eustis street to Albany street.....	815 64
Mill street.....	Rutherford avenue to Essex street.....	2,118 04
Oakland street.....	Hobart street to Bennett street.....	454 31
Paved street repairs.....		977 85
Pleasant street.....	Warren street to Monument square.....	1,380 75
Princeton street.....	Lexington street to Tufts street.....	131 25
Providence street.....	Columbus avenue to Church street.....	1,434 03
Putnam street.....	Lexington street to Chelsea street.....	2,411 02
River street.....	Glenwood avenue to Mill Pond.....	6,458 08
River street.....	Glenwood avenue to railroad bridge.....	1,546 52
Rosseter street.....	Bullard street to beyond Olney street.....	7,088 77
St. Albans road.....	Francis street to Huntington avenue.....	1,051 06
St. Germain street.....	Massachusetts avenue to Dalton street.....	1,999 51
Sawyer avenue.....	Pleasant street beyond Cushing avenue.....	693 61
Sever street.....	Haverhill street to Cambridge street.....	1,652 82
Stoughton street.....	Columbia road to Pleasant street.....	13,718 19
Stuart street.....	Dartmouth street to Trinity place.....	1,397 48
Taber street.....	Warren street to Winslow street.....	658 06
Tetlow street.....	Worthington street to Back Bay Fens.....	834 51
Trenton street.....	Meridian street to East Eagle street.....	10,996 84
Union street.....	Main street to Rutherford avenue.....	1,738 44
Vermont street.....	Corey street to Baker street.....	3,748 70
Walnut avenue.....	Humboldt avenue to Seaver street.....	26,983 41
Walnut street.....	Medford street to Bunker Hill street.....	1,559 84
Warren street.....	Townsend street to Blue Hill avenue.....	7,421 46
Washington street.....	Atherton street to School street.....	1,053 01
Water street.....	Devonshire street to Congress street.....	1,307 54
West First street.....	Dorchester avenue to A street.....	6,978 12
<i>Carried forward</i> .....		\$359,285 75

## Charged to Appropriation for Street Improvements.—Concluded.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$359,285 75
West Sixth street.....	E street to F street.....	2,193 76
Winslow street.....	Dudley street to Eustis street.....	2,229 99
Yeoman street.....	Albany street to Hampden street.....	1,611 56
Total.....		\$365,321 06
Amount due from Highways, Making of.....		\$114 27
Amount due from granolithic sidewalks.....		1,395 08
Total.....		1,509 35
Total.....		\$366,830 41
Less amount due Reconstruction and Repairing Streets by Contract..		\$11 35
Less amount due Paving Service.....		39,593 07
Total.....		39,604 42
Total.....		\$327,225 99

## Charged to Appropriation for Highways, Making of.

STREETS.	Limits.	Amounts.
Albany street.....	Broadway to 75 feet south of Troy street.....	\$13,569 77
Allenwood street.....	Anawan avenue to Pelton street.....	77 50
Arbutus street.....	Blue Hill avenue to Irma street.....	2,620 45
Archdale road.....	Washington street to South street.....	86 24
Augustus avenue.....	Metropolitan avenue to Ethel street.....	35 72
Babcock street.....	Commonwealth avenue to Boston & Albany Railroad....	21,087 04
Belgrade avenue *....	Extension and Beech street widening.....	35,703 66
Bellvista road.....	Allston street to Brookline line.....	30
Boylston street.....	Westerly side, from Tremont street to Charles street....	8,933 09
Breck avenue.....	Washington street to Langley road.....	35 72
Brenton street.....	Glenway street to Greenwood street.....	69 50
Broadway.....	At southeast corner of Washington street.....	1,890 82
Buckminster street....	Commonwealth avenue to Allston Street Playground....	1,021 00
Burlington avenue.....	Brookline avenue, 500 feet northerly .....	45
Cameron street.....	Hancock street, 538 feet westerly.....	790 32
Canterbury street.....	At the intersection of Walk Hill street.....	3,113 05
Caspian way.....	Savin Hill avenue, 520 feet easterly.....	35 71
Castleton street.....	South Huntington avenue to Jamaica way.....	44 27
<i>Carried forward</i> .....		\$89,114 61

\*See Special Appropriation Belgrade avenue extension and Beech street widening.

## Charged to Appropriation for Highways, Making of.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> . . . . .		\$89,114 61
Centre street * . . . . .	South street to Spring street . . . . .	75,105 63
Centre street * . . . . .	Allandale street to South street . . . . .	9,390 53
Charles street . . . . .	Beacon street to Cambridge street . . . . .	432 15
Chelsea street . . . . .	Foss street to Adams street . . . . .	1,416 50
Chestnut Hill avenue . . . . .	Commonwealth avenue to Beacon Park ride . . . . .	60 00
Clarendon street . . . . .	Stuart street to Columbus avenue . . . . .	54,689 61
Cornell street . . . . .	Orange street to Colberg avenue . . . . .	35 72
Cummington street . . . . .	Commonwealth avenue to Boston & Albany Railroad . . . . .	505 87
Cushman road . . . . .	Glencoe street to Dustin street . . . . .	15,187 91
Downer avenue . . . . .	DeWolf street to Sawyer avenue . . . . .	35 71
East Fourth street . . . . .	At northeast corner of K street . . . . .	560 47
Easton street . . . . .	North Harvard street to Mansfield street . . . . .	21,274 29
Elder street . . . . .	Columbia road to Humphreys street . . . . .	11,810 57
Falkland terrace . . . . .	Hobart street to Brooksdale road . . . . .	17,795 48
Faneuil street . . . . .	Bigelow street to Dunboy street . . . . .	182 61
Fargo street . . . . .	B street to C street . . . . .	322 34
Farquhar street . . . . .	Selwyn street to Centre street . . . . .	17,551 14
Faywood avenue . . . . .	Orient avenue to Tower street . . . . .	1,686 47
Glenville avenue . . . . .	Greylock road to Allston street . . . . .	20,655 81
Granada avenue . . . . .	Metropolitan avenue to Ethel street . . . . .	35 72
Greenview avenue . . . . .	Centre street, 415 feet southerly . . . . .	477 86
Grosvenor place . . . . .	Cliff street southwesterly . . . . .	4,608 39
Grove street . . . . .	Centre street to Washington street . . . . .	44 70
Halifax street . . . . .	South Huntington avenue to Pond View avenue . . . . .	45 54
Hamlin street . . . . .	East Eighth street to Columbia road . . . . .	7,036 51
Hampstead road . . . . .	Arborway, 992 feet northwesterly . . . . .	2,183 22
Harvard street . . . . .	Fabyan street to beyond Brookview street . . . . .	12,144 10
Havelock street . . . . .	Blue Hill avenue to Morton street . . . . .	14,280 59
Hill Top street . . . . .	Granite avenue to Hallett street . . . . .	35 71
Holton street . . . . .	Everett street to Antwerp street . . . . .	20
Hyde Park avenue † . . . . .	Metropolitan avenue to River street . . . . .	56,703 56
Imrie road . . . . .	Cambridge street to Allston street . . . . .	43 05
Justin road . . . . .	Bigelow street to Atkins street . . . . .	20
Kenton road . . . . .	Washington street, 844 feet easterly . . . . .	969 66
Kilmarnock street . . . . .	Boylston street to Queensberry street . . . . .	80 86
<i>Carried forward</i> . . . . .		\$436,503 29

\* See Reconstructing and Repairing Streets by Contract.

† See Special Appropriation for Hyde Park Avenue Widening.

## Charged to Appropriation for Highways, Making of.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....		\$436,503 29
Langley road.....	Breck avenue, 571 feet easterly.....	35 72
Levant street.....	Geneva avenue to Topliff street.....	1,378 97
McCraw street.....	Belgrade avenue to West Roxbury Branch Railroad.....	1,797 00
Mascot street.....	Ballou avenue to Norfolk street.....	1,378 01
Melton road.....	Wallingford road to Colonial road.....	50 60
Mt. Ida road.....	254 feet south of Marie street to Robinson street.....	2,157 31
Norfolk street.....	Corbet street to Blue Hill avenue.....	305 58
North Beacon street...	Cambridge street to Market street.....	30
Oriole street.....	Bellevue street to Emmons road.....	74 27
Patten street.....	Hyde Park avenue to Bourne street.....	35 72
Pertshire road.....	Bigelow street to Matchett street.....	20
Pontiae street.....	Hillside street to Tremont street.....	769 52
Province street.....	Province court, northeasterly.....	1 60
Public Alley No. 710..	East Brookline street to East Newton street.....	6,937 31
Public Alley No. 818..	St. Stephen street, about 690 feet westerly.....	11,391 45
Public Alley No. 819..	Westland avenue to Batavia street.....	280 04
Public Alley No. 820..	Huntington avenue to St. Botolph street.....	273 93
Public Alley No. 821..	Gainsborough street to Public Alley No. 820.....	476 16
Public Alley No. 909..	Massachusetts avenue to Hemenway street.....	103 40
Reservoir road.....	At northeast corner of Beacon street.....	4,447 66
Rockdale street.....	Savin Hill avenue to Springdale street.....	5 00
Rowell street.....	Hancock street to Cushing avenue.....	35 71
St. Rose street.....	South street, 416 feet westerly.....	35 71
South street.....	At Centre street.....	8,051 48
Stark street.....	Cambridge street to Roland street.....	48 40
Stuart street.....	Clarendon street to Trinity place.....	10,213 83
Stuart street.....	Berkeley street to Columbus avenue.....	52 83
Tebroe street.....	Bowdoin street to Levant street.....	242 34
Thorndike street.....	Commonwealth avenue to Brookline line.....	66 40
Tovar street.....	Bowdoin street to Cameron street.....	241 73
Tremont street.....	Westerly side, from Park street to Boylston street.....	15,033 90
Victory road.....	Neponset avenue to Stoughton street.....	4,018 70
Vista street.....	Augustus avenue to Malvern road.....	35 71
Wachusett street.....	Walk Hill street to Eldridge road.....	1,808 56
Washington street....	Tremont street to Nonantum street (south side).....	1,293 81
Wensley street.....	Buckminster street to Bickford avenue.....	35 71
<i>Carried forward</i> .....		\$509,617 86



## Charged to Appropriation for Highways, Making of.—Concluded.

STREETS.	Limits.	Amounts.
<i>Brought forward</i> .....	.....	\$509,617 86
Wellington Hill street..	Blue Hill avenue westerly.....	1,684 65
Whitten street.....	Dorchester avenue easterly.....	135 86
Wilbur street.....	Cushing avenue to Upham avenue.....	5,170 05
Wilcock street.....	Blue Hill avenue to Morton street.....	17,211 87
William Jackson avenue	Chestnut Hill avenue to Academy Hill road.....	8,446 27
Wollaston terrace.....	Woodrow avenue to Jones avenue.....	4,984 37
Wyoming street.....	Wabeno street to Humboldt avenue.....	35 71
York street.....	Glenway street to Greenwood street.....	1,331 40
Zamora street.....	Perkins street to Castleton street.....	24 67
Total.....	.....	\$548,642 71
Less amount due Paving Service.....	\$14,890 76	
Less amount due Street Improvements.....	114 27	
Less amount due Reconstructing and Repairing Streets by Contract,	7 25	
		15,012 28
Total.....	.....	\$533,630 43

## PUBLIC WORKS DEPARTMENT — HIGHWAY DIVISION — PAVING SERVICE.

## Maintenance of Macadam Streets.

Table Showing Cost by Years of Resurfacing or Patching from February 1, 1916, to January 31, 1921.

	1916.	1917.	1918.	1919.	1920.
Total length of macadam in miles.....	392.91	300.04	386.97	379.90	‡ 375.28
Total area of macadam in square yards.....	7,058,095	6,913,275	6,815,543	6,648,728	‡ 6,538,199
Total cost of resurfacing of macadam *.....	\$115,208 20	\$138,452 49	\$115,285 89	\$283,983 33	\$ 289,635 97
Total cost of patching of macadam †.....	\$114,113 82	\$198,820 05	\$181,286 71	\$213,774 43	¶ 248,468 81
Cost of resurfacing per mile over entire mileage.....	\$293 37	\$354 96	\$297 92	\$747 52	\$771 78
Cost of resurfacing per square yard over entire area.....	\$0 016	\$0 02	\$0 017	\$0 042	\$0 044
Length of macadam resurfaced yearly in miles.....	11.5	10.74	12.6	19.9	16.2
Cost per mile of macadam resurfaced yearly.....	\$10,023 32	\$12,801 29	\$9,149 59	\$14,270 52	\$17,878 76
Area of macadam resurfaced yearly in square yards.....	179,093	165,401	186,337	268,015	229,680
Cost per square yard of macadam resurfaced yearly.....	\$0 644	\$1 20	\$0 619	\$1 059	\$1 26
Area of macadam patched yearly in square yards.....	415,637	788,981	230,159	397,362	‖ 540,690
Cost per square yard of macadam patched yearly.....	\$0 256	\$0 252	\$0 788	\$0 537	‡ 0 459
Binders used in resurfacing (per cent):					
Water.....	.1980	.0695	.4259	.1569	.1200
Tar preparation.....	.5496	.5831	.3695	.4534	.3569
Asphalt preparations.....	.2524	.3474	.2046	.3897	.5231

\* By resurfacing is meant entire area of street excavated and resurfaced with not less than four inches of new material.

† By patching is meant scattered areas of depressions, etc., which are filled with new material from a depth of one half inch up, and in some cases blanketed with bituminous binder.

‡ Of this amount 121.21 miles or 2,337,718 square yards is bituminous binder.

§ \$96,306.09 charged to maintenance; \$193,329.88 charged to street improvements.

¶ \$186,992.91 charged to maintenance; \$61,475.90 charged to street improvements.

‖ 374,359 square yards patched; 143,240 square yards tar blanket coat; 23,091 square yards asphalt blanket coat.

**New Edgestones.** (Does not include work done on streets laid out and constructed under chapter 393 of the Acts of 1906.)

*First Setting. Linear Feet*

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester and Hyde Park.	Roxbury.	City Proper.	Totals.
1911.....	1,718	465	.....	2,098	11,627	14,627	5,806	352	36,693
1912.....	6,045	1,017	229	1,806	7,810	9,669	3,168	407	30,231
1913.....	2,199	557	70	1,221	2,907	10,296	2,716	1,359	21,325
1914.....	4,773	959	.....	1,970	1,520	1,637	901	672	12,432
1915.....	947	265	.....	4,939	2,230	6,928	4,547	331	20,187
1916.....	221	1,996	.....	1,987	2,393	3,378	1,968	638	12,581
1917.....	1,779	298	.....	1,159	8,225	7,189	933	524	20,107
1918.....	.....	2,498	.....	162	4,751	684	662	.....	8,757
1919.....	324	151	.....	1,144	1,075	1,573	641	54	4,962
1920.....	87	244	336	37	.....	.....	1,837	999	3,540
Totals..	18,093	8,450	635	16,523	42,618	55,981	23,179	5,336	170,815

**New Brick Sidewalks.** (Does not include work done on streets laid out and constructed under chapter 393 of the Acts of 1906.)

*First Laying. Square Yards.*

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester and Hyde Park.	Roxbury.	City Proper.	Totals.
1911.....	520	364	.....	.....	.....	460	1,469	314	3,127
1912.....	2,249	623	.....	.....	.....	208	716	.....	3,796
1913.....	490	465	.....	.....	80	103	647	86	1,871
1914.....	762	379	.....	.....	.....	150	382	585	2,258
1915.....	287	465	.....	150	.....	.....	501	.....	1,403
1916.....	125	175	.....	.....	.....	.....	366	.....	666
1917.....	17	20	.....	.....	.....	105	599	49	790
1918.....	.....	95	.....	.....	.....	.....	95	40	230
1919.....	491	1,351	.....	.....	.....	.....	322	.....	2,164
1920.....	19	210	.....	.....	.....	.....	.....	.....	229
Totals..	4,960	4,147	.....	150	80	1,026	5,097	760	15,534

## Recapitulation, 1920.

DISTRICTS.	Edgestones. <i>Linear Feet.</i>	Brick. <i>Square Yards.</i>
South Boston Paving District, No. 1.....	87	19
East Boston Paving District, No. 2.....	244	210
Charlestown Paving District, No. 3.....	336	
Brighton Paving District, No. 4.....	37	
West Roxbury Paving District, No. 5.....		
Dorchester and Hyde Park Paving Districts, Nos. 6, 9-11.....		
Roxbury Paving District, No. 7.....	1,827	
City Proper Paving Districts, Nos. 8 and 10..	989	
Totals.....	3,540	229

Loads of Dirt and Street Cleanings Removed from February 1, 1920,  
to January 31, 1921.

DISTRICTS.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.
South Boston.....	2,334	10	5	2,384
East Boston.....	472	241		954
Charlestown.....	235	38	29	485
Brighton.....	1,509	1,765		5,039
West Roxbury.....	1,202	2,041		5,284
Dorchester.....	838	409		1,656
Roxbury.....	6,842	265		7,372
South End.....	252		320	2,172
Ashmont.....	1,068	1,318		3,704
North End.....	559			559
Hyde Park.....	1,912	268		2,448
Totals.....	17,223	6,355	354	32,057

\* Single load, 1 cubic yard. † Double load, 2 cubic yards.

‡ Auto truck load, 6 cubic yards.

**The Number of Loads of Snow Removed from February 1, 1920, to  
January 31, 1921.**

DISTRICTS.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.	Cost.§
South Boston...	8,043	.....	.....	16,086	\$13,757 72
East Boston...	783	116	.....	1,914	7,834 79
Charlestown...	2,530	31	864	10,337	13,182 11
Brighton.....	218	587	.....	2,197	10,631 76
West Roxbury..	1,232	3,082	.....	11,710	14,899 63
Dorchester.....	1,136	950	.....	5,122	15,782 76
Roxbury.....	4,820	764	.....	11,932	29,294 62
South End.....	2,350	39	.....	4,817	22,347 39
Ashmont.....	1,098	2,981	.....	11,139	7,763 93
North End.....	3,583	.....	.....	7,166	15,809 66
Hyde Park.....	303	849	.....	3,153	4,915 49
Totals.....	26,096	9,399	864	85,573	\$156,219 86

\* Single load, 2 cubic yards.      † Double load, 3 cubic yards.

‡ Auto truck loads, 6 cubic yards.

§ Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.

**Snow and Ice Removed by Contract from February 1, 1920, to  
January 31, 1921.**

SNOW DISTRICTS.	Number of Loads.*	Cubic Yards.	Cost per Cubic Yard.	Total.
Miscellaneous †.....	.....	.....	.....	\$13,850 64
District No. 1.....	6,974	48,792	\$0 57	27,811 44
District No. 2.....	4,144	35,470½	74	26,248 17
District No. 3.....	10,437	58,686	74	43,427 64
District No. 4.....	12,643	48,607	73	35,483 12
District No. 5.....	6,962	38,794	78	30,259 32
District No. 6.....	10,632	86,718	65	56,366 70
District No. 7.....	14,843	59,776½	60	35,865 90
District No. 8.....	7,879	42,543½	65	27,653 28
District No. 9.....	3,599	29,724½	65	19,320 93
District No. 10.....	6,254	27,230	65	17,699 50
District No. 11.....	5,950	29,033	60	17,419 80
District No. 12.....	355	3,905	65	2,538 25
District No. 13.....	4,172	21,471	65	13,956 15
District No. 14.....	1,583	14,751	65	9,588 15
District No. 15.....	6,030	23,580½	75	17,685 38
District No. 16.....	1,286	5,962	65	3,875 31
District No. 17.....	1,487	15,202½	65	9,881 64
District No. 18.....	146	930	65	604 50
District No. 19.....	64	443	65	287 95
District No. 20.....	60	407½	65	264 88
Totals.....	105,500	592,027½	\$0 665	\$410,088 65

\* Loads vary from three (3) to ten (10) cubic yards.

† Includes engineering, \$3,257.74, inspection, \$9,603.44, and incidentals, \$989.46.

Summary of Volume and Cost of Snow Removed, Year Ending January 31, 1921.

[illegible]

Street Cleaning Service.....	503	1,509	\$1,442 23	\$0 955
South Boston.....	275	825	895 14	1 085
East Boston.....	426	1,278	1,088 08	851
Charlestown.....	363	1,089	929 37	853
Dorchester.....	520	1,560	947 04	607
Roxbury.....	11,779	35,373	25,973 87	735
South End, downtown.....	1,521	4,563	2,457 98	538
Back Bay.....	12,320	36,960	19,503 09	527
North and West Ends.....	14,144	44,046	23,395 94	524
Patrol System.....	34	42,341	7 127,767	
Totals.....		34	\$76,632 74	\$0 599

<sup>1</sup> Single load, 2 cubic yards.    <sup>2</sup> Double load, 3 cubic yards.    <sup>3</sup> Auto truck loads, 6 cubic yards.

<sup>4</sup> Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.

<sup>5</sup> Loads vary from 3 to 10 cubic yards.

<sup>6</sup> Includes engineering, \$3,257.74, inspection \$9,603.44, and incidentals, \$989.46.

<sup>7</sup> Street Cleaning Service single loads, 3 cubic yards.

## STREET OPENINGS.

Under Classes 1 and 2 of the Schedule of Permit Fees, permits were issued for openings in public ways as follows:

TO WHOM ISSUED.	Permits.	Length in Feet.
Sewer and Water Services.....	3,300	20,450
Boston Consolidated Gas Company.....	1,469	36,795
Boston Elevated Railway Company.....	135	79,570
Dedham and Hyde Park Gas and Electric Com- pany.	52	5,015
Edison Electric Illuminating Company.....	1,585	38,765
New England Telephone and Telegraph Company,	249	11,0 6
Quincy Market Cold Storage and Warehouse Com- pany.	34	1,570
Western Union Telegraph Company.....	29	1,750
Miscellaneous.....	1,703	335,443
Emergency permits.....	845	
Emergency permits returned as used.....	890	
Estimated length of above.....		22,250
Totals.....	10,291	552,644

Making a total length of openings approximately 104.7 miles.

Permits for purposes other than openings have been issued as follows:

Advertising by man wearing lettered hat or coat .	248
Cleaning snow from roof . . . . .	4,467
Driving cattle through streets . . . . .	33
Erecting and repairing awnings . . . . .	930
Erecting and repairing buildings . . . . .	1,536
Painting or minor repairs on buildings . . . . .	3,806
Feeding horses on streets . . . . .	196
Moving buildings . . . . .	6
Placing signs flat on buildings . . . . .	1,096
Projecting signs or lamps from buildings . . . . .	321
Raising or lowering safes or heavy machinery . . . . .	184
Emergency permits for above class . . . . .	480
Special permits for periods and rates other than those above . . . . .	429
	<u>9,055</u>



The schedule of fees for permits was revised and put in effect April 1, as follows:

- Class No. 1. Openings in streets or sidewalks, 50 cents each. Limited to 100 linear feet on one permit.
2. Emergency permits, Class A (for the above purpose), 50 cents each.
  3. Advertising by man wearing hat and coat lettered, \$1 per month, \$5 per year.
  4. Cleaning snow from roofs (occupation of sidewalk and street). Annual permit, \$1.
  5. Driving cattle through the streets (annual permit to driver), \$5.
  6. Erecting and repairing awnings (annual permit), \$1.
  7. Moving buildings in streets, \$5 per day; minimum charge, \$10.
  8. Erecting, altering or repairing buildings (occupation of street or sidewalk), 5 cents, 3 cents or 2 cents per square foot per month according to zone.
  9. Painting or minor repairs, \$1 each.
  10. Feeding horses on streets (annual permit), \$1 each.
  11. Placing or removing signs flat on buildings, \$1 each.
  12. Projecting signs or lamps from buildings, \$1 each.
  13. Raising or lowering safes, machinery, etc., \$1 each.
  14. Emergency permits, Class B, for above purpose, \$1 each.
  15. Special permits for periods and rates other than those in the preceding classes, when, in the opinion of the Commissioner, such permits are requisite.

The revenue from issuing permits amounted to \$29,008.98, divided as follows:

Class No. 1.	Openings . . . . .	\$3,982 00
2.	Emergency openings . . . . .	850 50
3.	Advertising . . . . .	24 00
4.	Cleaning snow from roofs . . . . .	44 00
5.	Driving cattle . . . . .	15 00
6.	Erecting and repairing awnings . . . . .	801 00
7.	Moving buildings . . . . .	65 00
8.	Erecting, altering and repairing buildings . . . . .	16,273 23
9.	Minor repairs on buildings . . . . .	3,630 00
10.	Feeding horses . . . . .	196 00
11.	Placing flat signs . . . . .	976 00
12.	Projecting signs, etc. . . . .	321 00
13.	Raising and lowering safes, etc. . . . .	184 00
14.	Emergency permits, Class B . . . . .	480 00
15.	Special permits. . . . .	1,167 25
Total . . . . .		<u>\$29,008 98</u>

Twenty-five thousand two hundred and twenty-one dollars and eighty-eight cents in cash were deposited with the City Collector, Bills for the collection of the balance, three thousand seven hundred and eighty-seven dollars and ten cents were committed to the City Collector.

#### POLES.

Permits were issued for placing 291 poles in new locations, 957 for replacing in old locations and 61 for removal of poles.

#### BONDS.

There are one thousand seven hundred and thirty-five surety company bonds on file covering the City against claims for damages, etc., through the use of permits. They are in amounts of \$20,000, \$4,000, \$3,000 and \$1,000. In addition to these, there are two hundred and one personal bonds for the same purpose.

## PLANS.

Four hundred and eighty-five plans were received as follows:

	Tracks.	Poles.	Mains.	Conduits.	Miscellaneous.
Edison Electric Illuminating Company .....		98		206	
New England Telephone and Telegraph Company .....		33		27	
Hyde Park Gas and Electric Company .....			2		
Boston Police Department .....				7	
Boston Elevated Railway Company .....	7			5	
Western Union Telegraph Company .....				7	
Postal Telegraph Cable Company .....				2	
Boston Fire Department .....				34	
Boston Consolidated Gas Company .....			7		
Charlestown Gas Company .....		1	3		
Miscellaneous .....					46
<b>Totals .....</b>	<b>7</b>	<b>132</b>	<b>12</b>	<b>288</b>	<b>46</b>

Total of all plans on file 15,219.

## Street Numbering.

	Whole streets renum- bered.	Streets partly renum- bered.	Build- ings num- bered.	Build- ings renum- bered.	Figures sup- plied.
East Boston.....			11		35
Charlestown.....			11		28
Boston.....	1		63	23	211
South Boston.....			27		71
Dorchester.....			131	6	318
Roxbury.....			49	4	130
West Roxbury.....	1	6	106	19	311
Hyde Park.....			20	1	65
Brighton.....			63	8	186
Totals.....	2	6	481	61	1,355

## LIST OF STREETS HAVING A SMOOTH PAVEMENT.

\* Park roads in charge of Park Department. † Public streets in charge of Park Department.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires
A street (South Boston) .....	15 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.....	15 {	47 8	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
A street (South Boston) .....	Bessemer brick block gutters. Laid by Warren Brothers Company.....				
Academy Hill road (Brighton) .....	West Broadway to 15 feet southwest of West Broadway. Acme asphalt. Laid by Warren Brothers Company.....	15 {	45 8	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
Acton street (city proper) .....	Bessemer brick block gutters. Laid by Warren Brothers Company.....	3	17	1913	
Acton street (city proper) .....	At Washington street. Bitulithic. Laid by Warren Brothers Company.....	243	329	1896	
Adams street (Dorchester) .....	10 feet west of Washington street to 6 feet east of Bradford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	6	8	1897	
Adams street (Roxbury) .....	6 feet east of Bradford street to Bradford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	13	159	1918	
Adams street (Roxbury) .....	At Bowdoin street. Topeka. (Macadam base.) Laid by city force .....	2	8	1914	
Addison street (East Boston) .....	Each side of Eustis street. Bitulithic. Laid by John F. Beatty.....	7	20	1910	
Ainsworth street (West Roxbury) .....	At Dudley street. Mack brick block. Laid by James Doherty.....	8	32	1918	May 1, 1924.
	At Saratoga street. Standard asphalt. Laid by Bernudez Company.....	9	29	1920	Unfinished.
	At Centre street. Asphalt. (Macadam base.) Laid by the Bernudez Company.				
Albany street (city proper) .....	82 feet north of Broadway to 27 feet north of Broadway. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	55	204	1899	
Albany street (city proper) .....	27 feet north of Broadway to 13 feet north of the south side of Way street. Pine wood block. Laid by New York, New Haven & Hartford Railroad Company.	55	204	1913	

## List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Albany street (city proper).....	7 feet north of Stoughton street to 10 feet north of Massachusetts avenue. Pine wood block. Laid by Bernard E. Grant.	974	5,844	1917	Jan. 19, 1923.
Albany street (city proper and Roxbury).	9 feet south of Massachusetts avenue to 37 feet north of Southampton street. Pine wood block. Laid by Bernard E. Grant.	234	1,407	1917	Jan. 19, 1923.
Albany street (Roxbury).....	44 feet south of Hampden street to 7 feet north of Eustis street. Mexican asphalt. Laid by Bernudez Company.	1,606	4,881	1918	
Alford street (Charlestown).....	Malden Bridge draw. Jennison Wright slab block pavement. Laid by Boston Bridge Company.	125	611	1918	
Algonquin street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	3	11	1913	
Allen street (city proper).....	Charles street to 1 foot east of Charles street. Pine wood block. Laid by John McCourt Company.	1	3	1920	Aug. 20, 1925.
Allen street (city proper).....	1 foot east of Charles street to 2 feet east of Charles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1916	
Allen street (city proper).....	2 feet east of Charles street to 18 feet east of Blossom street. Mexican asphalt (macadam base). Laid by Central Construction Company.	786	2,099	1917	
Allen street (city proper).....	18 feet east of Blossom street to Chambers street. Bitulithic on crushed stone base. Laid by Warren Brothers Company.	507	1,300	1903	
Allendale street (West Roxbury).....	At Centre street. Topeka. Macadam base. Laid by Rowe Contracting Company.	33	150	1919	Aug. 12, 1924.
Allston street (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by the Bernudez Company.	10	40	1917	Dec. 7, 1922.
Allston street (Brighton).....	North street line of Commonwealth avenue to the south street line of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	129	344	1917	

Allston street (Brighton).....	At Bellvista road. Acme asphalt (macadam base). Laid by John F. Lynch,	.....	35	1919	June 24, 1924.
Ambruse street (Roxbury).....	At Dearborn street. Mexican asphalt. Laid by Bermudez Company.....	3	10	1918	
Amory street (Roxbury and West Roxbury).	80 feet south of West Walnut park to 7 feet north of Green street. Mexican asphalt (macadam base). Laid by Central Construction Company.	3,397	10,206	1919	Dec. 6, 1924.
Amory street (West Roxbury).....	7 feet north of Green street to Green street. Topeka. Laid by the Central Construction Company.	7	22	1919	Dec. 6, 1924.
Anawan avenue (West Roxbury).....	12 feet east of Belgrade avenue to Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	12	71	1920	Unfinished.
Anawan avenue (West Roxbury).....	Belgrade avenue to 105 feet west of Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	105	354	1920	Unfinished.
Andrews street (city proper).....	East Dedham street to East Canton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	201	290	1899	
Appleton street (city proper).....	Trenmont street to 16 feet west of Trenmont street. Topeka. Laid by Rowe Contracting Company.	16	105	1919	May 31, 1924.
Appleton street (city proper).....	4 feet east of Berkeley street to Berkeley street. Bitulithic. Laid by Warren Brothers Company.	4	18	1906	
Appleton street (city proper).....	Berkeley street to 4 feet west of Berkeley street. Bitulithic. Laid by Warren Brothers Company.	4	18	1906	
Appleton street (city proper).....	4 feet west of Berkeley street to 3 feet east of Clarendon street. Acme asphalt (macadam base). Laid by Warren Brothers Company.....	564 {	2,180 {	1916	Nov. 5, 1921.
Appleton street (city proper).....	Bessener brick block gutters. Laid by Warren Brothers Company.....	314 {	314 {	1916	Nov. 5, 1921.
Appleton street (city proper).....	3 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	15	1914	
Appleton street (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	14	1914	
Appleton street (city proper).....	3 feet west of Clarendon street to 8 feet east of Dartmouth street. Acme asphalt (macadam base). Laid by Warren Brothers Company.....	557 {	2,151 {	1916	Nov. 5, 1921.
Appleton street (city proper).....	Bessener brick block gutters. Laid by Warren Brothers Company.....	310 {	310 {	1916	Nov. 5, 1921.

## List of Streets Having a Smooth Pavement — Continued.

STREETS.	Linuts.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Appleton street (city proper).....	8 feet west of Dartmouth street to 91 feet east of West Canton street. Acme asphalt (macadam base). Laid by Warren Brothers Company.....	293 { }	1,140 163	1916 1916	Nov. 5, 1921. Nov. 5, 1921.
Appleton street (city proper).....	91 feet east of West Canton street to 10 feet east of Columbus avenue. Bifulithie. Laid by Fred S. & A. D. Gore Corporation.	177	1,163	1912	
Appleton street (city proper).....	10 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	10	95	1906-07	
Arbutus street (Dorchester).....	At Irma street. Bifulithie. Laid by Warren Brothers Company.....	7	23	1919	May 26, 1924.
Arbutus street (Dorchester).....	Each side of Lucerne street. Aztec asphalt. Laid by the Bermudez Com- pany.	14	46	1919	Oct. 20, 1924.
Arch street (city proper).....	Milk street to Franklin street. Residual asphalt. Laid by Central Con- struction Company.	416	1,203	1915	
Arch street (city proper).....	9 feet south of Franklin street to 12 feet north of Summer street. Residual asphalt. Laid by Central Construction Company.	382	1,303	1915	
Arch street (city proper).....	12 feet north of Summer street to Summer street. Pine wood block. Laid by Northern Construction Company.	12	63	1915	
Arch street (city proper).....	Near Summer street. Trinidad asphalt. Laid by Northern Construction Company.	.....	150	1915	
Ardale street (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by Bermudez Company.	18	54	1920	Unfinished.
Ardent street (West Roxbury).....	Colberg avenue to Belgrade avenue. Aztec asphalt. Laid by Central Construction Company.	290	840	1916	Aug. 16, 1921.
Arlington street (city proper).....	16 feet north of Boston & Albany Railroad Bridge to 50 feet north of Isabella street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	376	1,069	1911	
Arlington street (city proper).....	31 feet south of Providence street to 10 feet south of Boylston street. Besse- mer brick block. Laid by Coleman Brothers.	198	856	1918	



Arlington street (city proper).....	10 feet south of Boylston street to Boylston street. Pine wood block. Laid by Clark & Gore.	10	43	1915
Arlington square (city proper).....	Bridge over New York, New Haven & Hartford Railroad. Metropolitan brick (in street car tracks). Laid by Boston Elevated Railway Company.	100 {	112	1901
Arlington street (city proper).....	Trinidad asphalt. Laid by Barber Asphalt Paving Company.		1,366	1899
Arlington street (city proper).....	Boylston street to 18 feet north of Boylston street. Pine wood block. Laid by Clark & Gore.	18	100	1915
Arlington street (city proper).....	18 feet north of Boylston street to Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1,300	7,181	1901
Arlington street (city proper).....	At Newbury street. Bitulithic. Laid by Warren Brothers Company.	.....	.....	.....
Armandine street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	9	27	1918
Arthur street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	28	1918
Ash street (city proper).....	Bennet street to north side of Nassau street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	226	440	1905
Ash street (city proper).....	North side of Nassau street to 6 feet north of Oak street. Acme asphalt. Laid by Warren Brothers Company.	216	379	1909
Ashburton place (city proper).....	Somerset street to 55 feet east of Bowdoin street. Bitulithic crushed stone base. Laid by Warren Brothers Company.	278	665	1904
Ashburton place (city proper).....	55 feet east of Bowdoin street to Bowdoin street. Bitulithic. Laid by Warren Brothers Company.	48	111	1911
Ashby street (Brighton).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	19	75	1915
Aspinwall road (Dorchester).....	Talbot avenue to 22 feet east of Talbot avenue. Mack brick block. Laid by James Doherty.	22	98	1911
Aspinwall road (Dorchester).....	22 feet east of Talbot avenue to 29 feet east of Talbot avenue. Mack brick crosswalks. Laid by James F. Murphy.	7	37	1907
Aspinwall road (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.	10	56	1913

June 4, 1924.

Sept. 25, 1923.

Dec. 24, 1923.

## List of Streets Having a Smooth Pavement — Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Astor street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	13	1901	
Athens street (South Boston).....	West Second street to A street. Sicilian rock asphalt; bituminous concrete base. Laid by Boston Asphalt Company.	614	902	1895	
Athens street (South Boston).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	64	92	1918	
Athens street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	503	726	1892	
Athens street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	508	734	1901	
Atherton street (Roxbury).....	Each side Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	18	60	1919	Dec. 6, 1924.
Atkins street (Brighton).....	Washington street to 27 feet north of Justin road. Mexican asphalt. Laid by Central Construction Company.	618	1,490	1917	July 18, 1922.
Atwill road (West Roxbury).....	Richwood street to 6 feet north of Richwood street. Topeka. Laid by Central Construction Company.	6	15	1917	June 19, 1923.
Atwill road (West Roxbury).....	6 feet north of Richwood street to Park street. Topeka. Laid by Rowe Contracting Company.	207	599	1919	Oct. 22, 1924.
Auburn street (city proper).....	8 feet south of Leverett street to Chambers street. Laid by Barber Asphalt Paving Company.	217	556	1911	
Auburn street (city proper).....	Chambers street to Poplar street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	367	764	1911	
Auburn street (Roxbury).....	Ruggles street to 7 feet south of Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	20	1907	
Auburn street (Roxbury).....	7 feet north of Vernon street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	20	1907	

				16	1919	June 30, 1924.
Auckland street (Dorchester).....	At Hallam street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	.....	.....	.....	.....	.....
Austin street (Charlestown).....	8 feet west of Seminary place to 5 feet east of Lawrence street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	143	.....	413	1891	.....
Avenue Louis Pasteur (Roxbury).....	121 feet north of Longwood avenue to Longwood avenue. Mack brick block. Laid by James Doherty.	121	.....	1,244	1910	.....
Avery street (city proper).....	Washington street to 10 feet west of Washington street. Pine wood block. Laid by Bernard E. Grant.	10	.....	30	1917	Nov. 4, 1922.
Avery street (city proper).....	10 feet west of Washington street to Tremont street. Bitulithic. Laid by Coleman Brothers.	415	.....	1,200	1914	.....
Avon street (city proper).....	Washington street to 9 feet east of Washington street. Pine wood block. Laid by Bernard E. Grant.	9	.....	20	1917	Nov. 4, 1922.
Avon street (city proper).....	9 feet east of Washington street to Chauncy street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	428	.....	1,061	1901	.....
B street (South Boston).....	14 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.	14 {	.....	45	1917	Oct. 18, 1922.
B street (South Boston).....	Bessmer brick block gutters. Laid by Warren Brothers Company.	.....	.....	8	1917	Oct. 18, 1922.
Babcock street (Brighton).....	West Broadway southwest to Acme asphalt. Laid by Warren Brothers Company.	.....	.....	10	1917	Oct. 18, 1922.
Babcock street (Brighton).....	Bessmer brick block gutters. Laid by Warren Brothers Company.	.....	.....	3	1917	Oct. 18, 1922.
Balsom street (Dorchester).....	Commonwealth avenue to Boston & Albany Railroad. Topeka. Laid by Rowe Contracting Company.	933	.....	4,082	1920	Dec. 6, 1925.
Balsom street (Dorchester).....	Blue Hill avenue to 25 feet north of Norfolk street. Bitulithic (macadam base). Laid by Warren Brothers Company.	201	.....	653	1918	Nov. 4, 1923.
Balsom street (Dorchester).....	25 feet north of Norfolk street to Norfolk street. Bitulithic. Laid by Warren Brothers Company.	25	.....	150	1918	Nov. 4, 1923.
Balsom street (Dorchester).....	Norfolk street to 83 feet south of Norfolk street. Bitulithic (macadam base). Laid by Warren Brothers Company.	83	.....	645	1918	Nov. 4, 1923.
Baird street (Dorchester).....	Blue Hill avenue to Morton street. Bitulithic. Laid by Warren Brothers Company.	545	.....	1,605	1919	May 26, 1924.

## List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Bakersfield street (Dorchester) .....	At Stoughton street. Topeka (macadam base). Laid by department forces . .	2	7	1920	
Ballard street (West Roxbury) .....	At Centre. Topeka (macadam base). Laid by Rowe Contracting Company.	11	22	1919	Aug. 12, 1924.
Barbara street (West Roxbury) .....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	11	33	1920	Dec. 22, 1925.
Bardwell street (West Roxbury) .....	South street to Ballard street. Mexican asphalt. Laid by Central Construction Company.	623	1,328	1917	June 13, 1922.
Barton court (city proper) .....	Barton street to Brighton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	134	182	1904	
Barton street (city proper) .....	Leverett street to Chambers street and Chambers street to 5 feet north of Milton street. Silliman rock asphalt. Laid by Boston Asphalt Company.	380	645	1895	
Barton street (city proper) .....	5 feet north of Milton street to Milton street. Seyssel rock asphalt. Laid by Jones & Meehan.	5	8	1899	
Batterymarch street (city proper) .....	93 feet west of Broad street to 7 feet east of Milk street. American rock asphalt (granite block base). Laid by Jones & Meehan.	205	659	1909	
Batterymarch street (city proper) .....	7 feet east of Milk street to Milk street. Pine wood block. Laid by James Doherty.	7	21	1911	
Batterymarch street (city proper) .....	Milk street to 7 feet west of Milk street. Pine wood block. Laid by James Doherty.	7	21	1911	
Batterymarch street (city proper) .....	7 feet west of Milk street to 57 feet west of Milk street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	50	150	1896	
Batterymarch street (city proper) .....	57 feet west of Milk street to 16 feet east of Liberty square. Aztec asphalt. Laid by James Doherty.	77	231	1919	
Batterymarch street (city proper) .....	16 feet east of Liberty square to Liberty square. Pine wood block. Laid by James Doherty.	16	48	1919	Oct. 10, 1924.

			1920	Sept. 11, 1925.
Bay State road (Roxbury).....	Beacon street to 215 feet west of Beacon street. Pine wood block. Laid by James Doherty.	215	1,244	1920
Bayswater street (East Boston).....	Austin avenue to east street line of Waupello road. Aztec asphalt. Laid by James Doherty.	608	2,555	1919
Beacon street (city proper).....	Tremont street to 12 feet west of Tremont street. Pine wood block. Laid by Bernard E. Grant.	12	43	1917
Beacon street (city proper).....	21 feet west of Park street to Charles street. Topoka (macadam base). Laid by Bernard E. Grant.	1,688	6,167	1917
Beacon street (city proper).....	Charles street to 6 feet west of Arlington street (south side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	2,108	1901
Beacon street (city proper).....	Charles street to east side of Brimmer street (north side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	495	2,228	1891
Beacon street (city proper).....	Easterly side of Brimmer street to 6 feet west of Arlington street (north side). American rock asphalt. Laid by Jones & Meelan.	364	1,519	1908
Beacon street (city proper).....	6 feet west of Arlington street to 5 feet east of Dartmouth street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,851	9,906	1900-01
Beacon street (city proper).....	5 feet east of Dartmouth street to easterly side of Heyford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2,285	12,134	1909
Beacon street (city proper).....	Easterly side of Heyford street to Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	703	3,754	1907
Beacon street (city proper).....	At Massachusetts avenue. Bitulithic. Laid by Warren Brothers Company.	.....	6	1902
Beacon street (city proper).....	Massachusetts avenue to east side of Charlesgate West. Pine wood block. Laid by James Doherty.	922	4,908	1920
Beacon street (Roxbury).....	East side of Charlesgate West to 10 feet east of Raleigh street. Pine wood block. Laid by James Doherty.	595	3,138	1920
Beacon street (Roxbury).....	10 feet east of Raleigh street to east side of bridge over the Boston & Albany Railroad. Aztec asphalt. Laid by Bernudez Company.	1,518	8,010	1917-18
Beacon street (Brighton).....	West side of Cleveland circle, Chestnut Hill avenue to 1,011 feet west of east street line of Reservoir lane. Concrete road (25 feet wide). Laid by city force.	3,260	9,055	1917

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Beacon street (Brighton).....	1,011 feet west of east street line of Reservoir lane to Newton line. Concrete road. Laid by city force.	2,308	6,411	1916	
Peach street (West Roxbury).....	Belgrade avenue at 15 feet north to north side of West Roxbury parkway. Topeka. Laid by Rowe Contracting Company.	155	689	1920	Unfinished.
Beaver street (city proper).....	At Beacon street. American rock asphalt. Laid by Jones & Meehan.	1	3	1908	
Bedford street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	31	1919	Aug. 21, 1924.
Belgrade avenue (West Roxbury).....	287 feet west of Rexham street across Anawan avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	611	1,764	1920	Unfinished.
Belgrade avenue (West Roxbury).....	Anawan avenue to bridge over New York, New Haven & Hartford Railroad. Topeka. Laid by Rowe Contracting Company.	949	3,663	1920	Unfinished.
Belvidere street (city proper and Roxbury).....	West Newton street to 3 feet east of Massachusetts avenue. Binulithic (crushed stone base). Laid by Warren Brothers Company.	1,324	4,025	1902-03	
Belvidere street (Roxbury).....	3 feet east of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	12	1901	
Belvista road (Brighton).....	Alston street to Brookline line. Acne asphalt. Laid by John F. Lynch....	890	2,473	1919	June 24, 1924.
Bennet street (city proper).....	Ash street to 9 feet west of Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	239	452	1905	
Bennington street (East Boston).....	At Chelsea street. Aztec asphalt (macadam base). Laid by Bernudez Company.	.....	50	1919	May 1, 1924.
Bennington street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	60	507	1906	
Bentham road (Dorchester).....	Mt. Ida road to 7 feet west of Mt. Ida road. Aztec asphalt. Laid by McGuire & McGourty.	7	21	1919	Dec. 26, 1924.



## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Berkeley street (city proper).....	North street line of Commonwealth avenue to 3 feet south of Marlborough street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	262	1,164	1903	
Berkeley street (city proper).....	3 feet south of Marlborough street to Marlborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	15	1901	
Berkeley street (city proper).....	Marlborough street to 2 feet north of Marlborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	10	1901	
Berkeley street (city proper).....	2 feet north of Marlborough street to Beacon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	262	1,164	1903	
Bernard street (Dorchester).....	At Talbot avenue (crosswalks). Mack brick block. Laid by James Doherty.	23	155	1911	
Bexley road (West Roxbury).....	Washington street to Florence street. Texro asphalt. Laid by McGuire & McGourty.	746	2,160	1919	Aug. 2, 1924.
Bickford street(Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	23	1910	
Bigelow street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	9	85	1920	July 8, 1925.
Binney street (Roxbury).....	At Longwood avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	32	1910	
Birch street (West Roxbury).....	Penfield street to 6 feet east of Albano street. Bitulithic. Laid by A. H. Archer.	346	898	1915	
Birch street (West Roxbury).....	6 feet west of Albano street to 416 feet west of Albano street. Bitulithic. Laid by A. H. Archer.	410	1,048	1915	
Bird street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910-11	



Blagden street (city proper) .....	Huntington avenue to Exeter street. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	489	1,882	1912	
Blake street (Dorchester and Hyde Park) .....	North side of Randolph road to 109 feet south of Randolph road. Mexican asphalt. Laid by Central Construction Company.	148	415	1917	July 20, 1922.
Blakeville street (Dorchester) .....	At Bowdoin street. Topeka (macadam base). Laid by city force .....	13	33	1919	
Blanford street (Roxbury) .....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	14	45	1917	May 21, 1923.
Bloomfield street (Dorchester) .....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	6	1920	
Blossom street (city proper) .....	1 foot south of Parkman street to Parkman street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1898	
Blossom street (city proper) .....	Parkman street to Allen street. Acme asphalt. Laid by Warren Brothers Company. ....	508 {	1,237	1917	Nov. 15, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company. ....		261	1917	Nov. 15, 1922.
Blue Hill avenue (Dorchester) .....	At Balson street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	133	1918	Nov. 4, 1923.
Blue Hill avenue (Roxbury) .....	At Dudley street. Mack brick block. Laid by James Doherty .....	9	41	1910	
Blue Hill avenue (Roxbury) .....	9 feet south of Dewey street to 12 feet north of Savin street, east side. Mexican asphalt (crushed stone base). Laid by Central Construction Company. ....	.....	742	1917	
	West side. Mexican asphalt .....	577	730	1919	
Blue Hill avenue (Roxbury) .....	Brunswick street to north side of Devon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	199	509	1906	
Blue Hill avenue (Roxbury) .....	West side of Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	.....	346	1917	Sept. 17, 1922.
Blue Hill avenue (Dorchester) .....	At Baird street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	148	1919	May 26, 1924.
Blue Hill avenue (Dorchester) .....	At Wilcock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	40	1920	July 7, 1925.
Blue Hill avenue (Dorchester) .....	At Havoclock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	42	1920	July 28, 1925.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Blue Hill avenue (Dorchester) .....	At Walk Hill street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	.....	981	1919	June 18, 1924.
Blue Hill avenue (Dorchester) .....	Bridge over Neponset river. Pine wood block. Laid by Massachusetts Public Works Department (Park).	20	133	1903	
Boardman street (East Boston) .....	At Saratoga street. Standard asphalt. Laid by Bernudez Company .....	8	51	1918	May 1, 1924.
Bolton street (South Boston) .....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	64	92	1918	
Bolton street (South Boston) .....	C street to D street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	501	724	1905	
Bond street (city proper) .....	Hanson street to Milford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	182	401	1895	
Bosworth street (city proper) .....	At Tremont street. Pine wood block. Laid by Coleman Brothers .....	13	28	1915	
Bowdoin street (city proper) .....	Beacon street to south side of Ashburton place. Canton block. Brick block,	380	1,013	1902	
Bowdoin street (city proper) .....	North side of Ashburton place to 17 feet south of Cambridge street. Bitu- lithic (crushed stone base). Laid by Warren Brothers Company.	837	2,205	1902	
Bowdoin street (Dorchester) .....	8 feet west of east side of Geneva avenue to 24 feet west of Tophill street Topeka. Each side of tracks macadam base. Laid by city force.	865	2,418	1919	
Bowdoin street (Dorchester) .....	24 feet west of Tophill street to 77 feet west of Mt. Ida road. Aztec asphalt (macadam base). Laid by Bernudez Company.	1,157	3,087	1919	
Bowdoin street (Dorchester) .....	Topeka (macadam base at Cottage Park). Laid by city force .....	.....	77	1919	
Bowdoin street (Dorchester) .....	78 feet west of Mt. Ida road to 2 feet east of westside of Quincy street. Pine wood block. Laid by James Doherty.	386	1,885	1909	
Bowdoin street (Dorchester) .....	2 feet east of west side of Quincy street to 96 feet west of Winter street (east side tracks). Topeka (macadam base). Laid by city force.	1,033	3,857	1918	

	At Tovar street.	Azteco asphalt.	Laid by McGuire & McGourty	.....	25	1919	Nov. 17, 1924
Bowdoin street (Dorchester)	96 feet west of Winter street to Hancock street.	Mack brick block.	Laid by Central Construction Company.	} 310	{ 1,438 993	1910-11 1913	
Bowdoin street (Dorchester)	At Washington street.	Pine wood block.	Laid by William J. Barry	14	100	1912	
Bowen street (South Boston)	C street to D street.	Sicilian rock asphalt.	Laid by Jones & Meehan	509	735	1901	
Bowen street (South Boston)	D street to E street.	Sicilian rock asphalt.	Laid by Jones & Meehan	514	742	1901	
Bowen street (South Boston)	E street to F street.	Bitulithic (crushed stone base).	Laid by Warren Brothers Company.	500	722	1903	
Bowen street (South Boston)	At Dorchester street.	Bitulithic.	Laid by Warren Brothers Company	4	6	1905	
Boylston road (Roxbury)	Boston & Albany Railroad Bridge to Hemenway street.	Back Bay Pews.	Bitulithic (macadam base).	1,100	8,253	1918	Aug. 15, 1923.
Boylston street (city proper)	Washington street to Tremont street.	Pine wood block.	Laid by Warren Brothers Company.	479	2,000	1917	Aug. 15, 1922.
Boylston street (city proper)	Tremont street to 9 feet west of Tremont street.	Pine wood block.	Laid by Bernard E. Grant.	9	40	1917	Nov. 15, 1922
Boylston street (city proper)	North side of Tremont street to Charles street.	Pine wood block.	Laid by James Doherty.	.....	1,497	1920	Oct. 16, 1925.
Boylston street (city proper)	9 feet west of Tremont street to the west street line of Boylston place.	Pine wood block.	Laid by Fred S. Gore.	360	809	1915	
Boylston street (city proper)	West street line of Boylston place to 89 feet east of Carver street.	Pine wood block.	Laid by United States Wood Preserving Company.	155	487	1901	
Boylston street (city proper)	89 feet east of Carver street, across Arlington street.	Pine wood block.	Laid by Clark & Gore.	1,184	8,693	1915	
Boylston street (city proper)	Arlington street across Berkeley street.	Pine wood block.	Laid by Coleman Brothers.	776	4,251	1914	
Boylston street (city proper)	Berkeley street, across Clarendon street.	Pine wood block.	Laid by Coleman Brothers.	612	3,400	1914	
Boylston street (city proper)	At Huntington avenue.	Bitulithic.	Laid by Coleman Brothers	.....	68	1914	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Quaranty Expires.
Boylston street (city proper).....	Clarendon street, across Dartmouth street. Pine wood block. Laid by Coleman Brothers.	650	3,543	1914	
Boylston street (city proper).....	Dartmouth street to east side of Exeter street. Pine wood block. Laid by Coleman Brothers.	548	3,044	1914	
Boylston street (city proper).....	At Exeter street (in tracks). Pine wood block. Laid by Coleman Brothers.	.....	68	1914	
Boylston street (city proper).....	East side of Exeter street to 107 feet west of Exeter street. Bitulithic. Laid by Coleman Brothers.	144	327	1914	
Boylston street (city proper).....	Bitulithic. Laid by Warren Brothers Company.....	.....	20	1919	June 4, 1924.
Boylston street (city proper and Roxbury).	107 feet west of Exeter street to 8 feet east of Hereford street. Bitulithic. Laid by Warren Brothers Company.	1,501	5,481	1913	
Boylston street (Roxbury).....	14 feet west of St. Cecilia street to 90 feet east of Massachusetts avenue (south side). Aztec asphalt. Laid by James Doherty.	.....	242	1919	
Boylston street (Roxbury).....	90 feet east of Massachusetts avenue to 40 feet east of Massachusetts avenue. Aztec asphalt. Laid by James Doherty.	50	165	1919	Aug. 30, 1924.
Boylston street (Roxbury).....	40 feet east of Massachusetts avenue to 5 feet east of Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	35	140	1904	
Boylston street (Roxbury).....	5 feet east of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	17	1901	
Boylston street (Roxbury).....	Massachusetts avenue to 3 feet west of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	12	1901	
Boylston street (Roxbury).....	3 feet west of Massachusetts avenue to westerly street line of Hemenway street. Bitulithic crushed stone base. Laid by Warren Brothers Company.	387	1,384	1905	
* Boylston street (Roxbury) (Fens).....	Easterly side Gaston square (both main and side drives) to Audubon road and on Audubon road to Agassiz road. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,700	9,996	1920	Aug. 10, 1925.

Boylston street (West Roxbury).....	26 feet east of Amory street to Amory street. Mexican asphalt. Laid by Central Construction Company.	26	85	1919	Dec. 6, 1924.
Boylston street (West Roxbury).....	Amory street to 51 feet west of Amory street. Mexican asphalt. Laid by Central Construction Company.	51	318	1919	Dec. 6, 1924.
Boylston street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bernudez Company.	3	9	1918	Sept. 28, 1923.
Brackett street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	30	1920	July 8, 1925.
Braddock park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
Bradford street (city proper).....	Waltham street to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	583	1,233	1897	
Bradfield avenue (West Roxbury).....	At Centre street. Asphalt. Laid by the Bernudez Company.	15	44	1920	Unfinished.
Bradlee street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.	3	11	1913	
Bradwood street (West Roxbury).....	At Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	43	237	1920	Unfinished.
Brattle square (city proper).....	7 feet north of Brattle street to 6 feet south of Elm street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	268	683	1888	
Breckard street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	38	1920	July 8, 1925.
Bremen street (East Boston).....	22 feet west of Saratoga street to Saratoga street. Aztec asphalt. Laid by Bernudez Company.	22	82	1919	May 1, 1924.
Bremen street (East Boston).....	Saratoga street to 20 feet east of Saratoga street. Aztec asphalt. Laid by Bernudez Company.	20	72	1919	May 1, 1924.
Brent street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	33	1918	Sept. 25, 1923.
Brighton avenue (Brighton).....	Street line of Commonwealth avenue to 2 feet east of Harvard avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	1,895	9,284	1917	Dec. 7, 1922.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Brighton avenue (Brighton) .....	2 feet east of Harvard avenue to 1 foot west of Harvard avenue. Bitulithie. Laid by Coleman Brothers. ....	37	230	1914	
Brighton avenue (Brighton) .....	Pine wood block (street car tracks). Laid by Coleman Brothers. ....	6	89	1914	
Brighton avenue (Brighton) .....	1 foot west of Harvard avenue to 2 feet east of Islington street. Aztec as- phalt (macadam base). Laid by Bermudez Company.	1,243	5,982	1917	Dec. 7, 1922.
Brighton avenue (Brighton) .....	At Islington street. Bitulithie (macadam base). Laid by Warren Brothers Company.	.....	35	1919	Sept. 4, 1924.
Brighton avenue (Brighton) .....	2 feet east of Islington street to Cambridge street. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	620	1917	Dec. 7, 1922.
Brighton street (city proper) .....	Bitulithie (macadam base). Laid by Warren Brothers Company. ....	300	1,846	1919	Sept. 4, 1924
Brighton street (city proper) .....	Between Leverett street and Poplar street (not including next item). Trim- dad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	599	809	1892	
Brighton street (city proper) .....	Between Leverett street and Chambers street. Acme asphalt. Laid by Warren Brothers Company.	.....	523	1908	
Brighton street (city proper) .....	Poplar street to 7 feet north of Allen street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	233	488	1892	
Brighton street (city proper) .....	7 feet north of Allen street to Allen street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	7	27	1917	
Brimmer street (city proper) .....	Beacon street to center of Byron street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	116	322	1895	
Brimmer street (city proper) .....	Center of Byron street to Chestnut street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	180	536	1906	
Brimmer street (city proper) .....	Chestnut street to Finckney street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	791	2,442	1895	
Brinsley street (Dorchester) .....	At Washington street. Fine wood block. Laid by William J. Barry. ....	5	26	1912	

Broadway (city proper).....	Park square to Eliot street. Black gum wood block. Laid by United States Wood Preserving Company.	93	425	1907
Broadway (city proper).....	Eliot street to Tremont street. Pine wood block. Laid by Coleman Brothers.	964	4,405	1913-14
Broadway (city proper).....	Bridge over Boston Elevated Railway. Pine wood block. Laid by Coleman Brothers.	55	244	1913
Broadway (city proper).....	Shawmut avenue to Washington street. Pine wood block. Laid by Coleman Brothers.	408	1,346	1913
Broadway (city proper).....	Laid by city force.....	.....	571	1919
Broadway (city proper).....	Bridge over Boston & Albany Railroad. Jennison Wright wood block. Laid by Boston Bridge Works.	210	812	1919
Broadway (city proper).....	105 feet west of Albany street to Albany street. Pine wood block. Laid by New York, New Haven & Hartford Railroad Company.	106	611	1913
Broadway (city proper and South Boston).	Drawbridge over Fort Point channel. Pine wood block. Laid by Boston Bridge Works.	210	934	1914
Bronfield street (city proper).....	At Tremont street. Pine wood block. Laid by Coleman Brothers.....	12	31	1915
Brookline avenue (Roxbury).....	Beacon street to 29 feet north of Newbury street. Aztec asphalt (macadam base.) Laid by Bermudez Company.	306	1,473	1918
Brook avenue (Roxbury).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Michael Meclan.	87	248	1919
Brooks street (Brighton).....	Bridge over Boston & Albany Railroad (central roadway). Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	130	1902
Brookside avenue (West Roxbury)....	At Green street. Topeka. Laid by Central Construction Company.....	6	19	1919
Brookview street (Dorchester).....	At Harvard street. Topeka. Laid by Rowe Contracting Company.....	12	47	1920
Browning avenue (Dorchester).....	Bernard street to Waks street. Bitulithic. Laid by H. J. McGuire.....	791	2,284	1914
Brunswick street (Roxbury and Dorchester).	Blue Hill avenue to Normandy street. Aztec asphalt. Laid by Central Construction Company.	638	1,849	1916
Buckingham street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	4	13	1906

June 1, 1923.

Dec. 6, 1924.

June 1, 1925.

Sept. 18, 1921.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Buckminster street (Brighton).....	Commonwealth avenue to Allston Street Playground. Topeka. Laid by Domenick Vezzella Company.	500	1,449	1919	Nov. 28, 1924.
Bunker Hill street (Charlestown).....	At Tufts street. Trinidad asphalt. Laid by Barber Asphalt Paving Com- pany.	.....	101	1897	
Burke street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Com- pany.	26	66	1906	
Burroughs street (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	12	1913	
Byron street (East Boston).....	8 feet south of Saratoga street to Saratoga street. Standard asphalt. Laid by Bernudez Company.	8	32	1918	May 1, 1924.
Byron street (East Boston).....	Saratoga street to 8 feet west of Saratoga street. Standard asphalt. Laid by Bernudez Company.	8	86	1918	May 1, 1924.
C street (South Boston).....	13 feet northeast of West Broadway to West Broadway. Aene asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	13 {	44 7	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
Cabot street (Roxbury).....	151 feet west of Tremont street to Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1,236	3,511	1891	
Cabot street (Roxbury).....	At Windsor street. Topeka. Laid by Central Construction Company.....	.....	30	1919	July 9, 1924.
Cabot street (Roxbury).....	Easterly side of Ruggles street to 7 feet east of Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	716	2,967	1892	
Cabot street (Roxbury).....	7 feet east of Vernon street to 7 feet north of Linden Park street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	477	1,376	1897	
Cabot street (Roxbury).....	7 feet north of Linden Park street to Linden Park street. Mack brick block. Laid by J. E. Burns & Co.	7	35	1909	
Callender street (Dorchester).....	51 feet west of Carlos street to 17 feet east of Blue Hill avenue. Trinidad asphalt. Laid by D. M. Biggs & Co.	1,241	3,988	1915	



Cambridge street (Brighton)	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	250	1917	Dec. 7, 1922.
Cambridge street (Brighton)	163 feet east of North Beacon street to 65 feet west of North Beacon street. Bitulithic. Laid by Warren Brothers Company, north side. South side.	305	409 151	1918 1919	Dec. 24, 1923. May 27, 1924.
Cambridge street (Brighton)	65 feet west of North Beacon street to 231 feet west of Elko street. Bitulithic (macadam base). Laid by Warren Brothers Company.	3,637	17,895	1919	Sept. 4, 1924.
Cambridge street (Brighton)	231 feet west of Elko street to Washington street. Bitulithic. Laid by Warren Brothers Company.	169	1,375	1913	
Cambridge street (Brighton)	(Brows to street car rails.) Pine wood block. Laid by Warren Brothers Company.	.....	38	1913	
Camden street (city proper)	Both sides of Columbus avenue (crosswalks). Bermudez asphalt. Laid by Boston Asphalt Company.	18	68	1906	
Cameron street (Dorchester)	Hancock street to 537 feet southwest of Hancock street. Aztec asphalt. Laid by McGuire & McGourty.	537	1,550	1919	Nov. 18, 1924.
Capen street (Dorchester)	At Norfolk street. Bitulithic. Laid by James Doherty.	8	25	1914	
Carleton street (city proper)	At West Newton street. Bitulithic. Laid by Central Construction Company	2	4	1917	
Carlow street (Roxbury)	At Albany street. Mexican asphalt. Laid by Bermudez Company.	1	2	1918	
Carnel street (Roxbury)	Tremont street to Delle avenue. Bitulithic. Laid by Warren Brothers Company.	250	583	1918	April 29, 1923.
Carolina avenue (West Roxbury)	At South street. Bitulithic. Laid by Warren Brothers Company.	1	3	1913	
Carver street (city proper)	Boylston street to 12 feet south of Boylston street. Pine wood block. Laid by Clark & Gore.	12	27	1915	
Carver street (city proper)	14 feet north of Broadway to Broadway. Pine wood block. Laid by Coleman Brothers.	14	63	1913	
Caslegate road (Roxbury)	Normandy street to Blue Hill avenue. Roman road. Laid by Roman Road Company.	433	1,250	1915	
Cazenove street (city proper)	Columbus avenue to 15 feet southerly; also the intersection of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	45	134	1899	

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cazenove street (city proper) .....	At Chandler street. Acme asphalt (macadam base). Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.....	3 {	5 5	1916 1916	Oct. 28, 1921. Oct. 28, 1921.
Cedric street (Roxbury) .....	Magazine street to Langdon street. Aztec asphalt. Laid by Central Construction Company.	610	1,356	1916	Nov. 11, 1921.
Central street (city proper) .....	8 feet west of Broad street to 21 feet east of Kilby street. Acme asphalt. Laid by Warren Brothers Company.	287	824	1916	
Central street (city proper) .....	21 feet east of Kilby street to 7 feet east of Kilby street. Aztec asphalt. Laid by James Doherty.	14	40	1919	
Central street (city proper) .....	7 feet east of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	7	21	1919	Oct. 10, 1924.
Centre street (Dorchester) .....	70 feet east of Washington street to Washington street. Pine wood block. Laid by William J. Barry.	70	255	1913	
Centre street (Roxbury and West Roxbury) .....	(South side). Forbes street to 264 feet east of Barbara street. Topeka (macadam base). Laid by Central Construction Company.	.....	699	1920	Dec. 22, 1925.
Centre street (West Roxbury) .....	294 feet east of Barbara street to 6 feet east of Boylston street. Topeka (macadam base). Laid by Central Construction Company.	884	2,652	1920	Dec. 22, 1925.
Centre street (West Roxbury) .....	Green street to 14 feet west of Eliot street. Bituthlic. Laid by Warren Brothers Company..... Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.	1,366 {	5,248 283	1913 1913	
Centre street (West Roxbury) .....	14 feet west of Eliot street to 23 feet west of Allendale street. Topeka (macadam base). Laid by Rowe Contracting Company.	5,535	23,068	1919	Aug. 12, 1924.
Centre street (West Roxbury) .....	23 feet south of Allendale street to 105 feet east of Church street. Asphalt (macadam base). Laid by the Bermudez Company.	6,498	16,602	1920	Unfinished.

Centre street (West Roxbury).....	106 feet east of Church street to 64 feet east of Manthorne road. Laid by Rowe Contracting Company.	Topeka.	1,464	9,828	1920	Unfinished.
Centre street (West Roxbury).....	At Richwood street.	Topeka.	Laid by Central Construction Company.....	68	1917	
Centerville park (Dorchester).....	Bourneside street to Upland avenue.	Aztec asphalt.	Laid by Central Construction Company.	515	1916	Nov. 27, 1921.
Chambers street (city proper).....	Green street, across Poplar street.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.	460	1902	
Chambers street (city proper).....	Brighton street to 6 feet west of Auburn street.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.	337	1895	
Chambers street (city proper).....	6 feet west of Auburn street to 8 feet east of Charles street.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.	112	1895	
Champane street (Brighton).....	At Justin road.	Mexican asphalt.	Laid by Central Construction Company.	7	1919	April 29, 1924
Chandler street (city proper).....	Arlington square to 11 feet west of Arlington square.	Topeka.	Laid by Rowe Contracting Company.	11	1919	May 30, 1924.
Chandler street (city proper).....	9 feet west of Arlington square to 3 feet east of Berkeley street.	Pine wood block.	Laid by Fred S. & A. D. Gore Corporation.	502	1912	
Chandler street (city proper).....	3 feet east of Berkeley street to Berkeley street.	Bitulithic.	Laid by Warren Brothers Company.	3	1906	
Chandler street (city proper).....	Berkeley street to 3 feet west of Berkeley street.	Bitulithic.	Laid by Warren Brothers Company.	3	1906	
Chandler street (city proper).....	3 feet west of Berkeley street to 2 feet east of Clarendon street.	Avenue asphalt (macadam base).	Laid by Warren Brothers Company.	2,211	1916	Oct. 28, 1921.
Chandler street (city proper).....	Bessemer brick block gutters.	Laid by Warren Brothers Company.	566	296	1916	Oct. 28, 1921.
Chandler street (city proper).....	2 feet east of Clarendon street to Clarendon street.	Bitulithic.	Laid by Warren Brothers Company.	8	1914	
Chandler street (city proper).....	Clarendon street to 6 feet east of Columbus avenue.	Avenue asphalt (macadam base).	Laid by Warren Brothers Company.	2,155	1916	Oct. 28, 1921.
Chandler street (city proper).....	Bessemer brick block gutters.	Laid by Warren Brothers Company.	548	290	1916	Oct. 28, 1921.
Chandler street (city proper).....	9 feet east of Columbus avenue to Columbus avenue.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.	9	1906	

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Chardon court (city proper) .....	Chardon street to 13½ feet east of Chardon street. ....	134	330		
Charles street (city proper) .....	At Boylston street. Pine wood block. Laid by Clark & Gore. ....		14	1915	
Charles street (city proper) .....	At Pinckney street. Trinidad asphalt. Laid by Barber Asphalt Paving Company. ....		2	1895	
Charles street (city proper) .....	7 feet south of Fruit street to 10 feet north of Allen street. Pine wood block. Laid by John McCourt Company. ....	730	3,253	1920	Aug. 20, 1925.
Charles street (Dorchester) .....	East street line of Ditson street to Geneva avenue. Concrete road. Laid by city force. ....	494	1,327	1916	
Charles street (Dorchester) .....	At Geneva avenue. Topeka (macadam). Laid by department forces. ....	1	9	1920	
* Charlesgate East (Roxbury) .....	Beacon street to Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company. ....	333	1,039	1918	Aug. 15, 1923.
* Charlesgate East (Roxbury) .....	Commonwealth avenue to Boston & Albany Railroad. Bitulithic (macadam base). Laid by Warren Brothers Company. ....	341	972	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury) .....	Beacon street to Commonwealth avenue, Back Bay Fens. Bitulithic (macadam base). Laid by Warren Brothers Company. ....	205	689	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury) .....	Commonwealth avenue to Boston & Albany Railroad Bridge, Back Bay Fens. Bitulithic (macadam base). Laid by Warren Brothers Company. ....	350	1,340	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury) .....	(Easterly branch) Commonwealth avenue to 172 feet southwest, near Newbury street. Bitulithic (macadam base). Laid by Warren Brothers Company. ....	172	607	1918	Aug. 15, 1923.
Charter street (city proper) .....	Hanover street to 14 feet west of Hanover street. Siellian rock asphalt. Laid by Boston Asphalt Company. ....	14	50	1896	
Charter street (city proper) .....	14 feet west of Hanover street, across Unity street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company. ....	306	615	1894	

Chase street (Dorchester).....	East Cottage street to Willis street. Trinidad asphalt. Laid by Central Construction Company.	307	856	1915	
Chauncy street (city proper).....	Summer street to 6 feet south of Summer street. Pine wood block. Laid by Northern Construction Company.	6	29	1915	
Chelsea Bridge North (Charlestown).....	South side draw to Chelsea line. Jennison Wright pine. Wood block. Laid by Standard Engineering Company, Inc., Toledo, Ohio.	319	1,418	1919	
Chelsea street (East Boston).....	75 feet north of Bennington street to 165 feet north of Saratoga street. Aztec asphalt (macadam base). Laid by Bernudez Company.	604	1,540	1919	May 1, 1924.
	Aztec asphalt (at Saratoga street). Laid by Bernudez Company.....	.....	382	1919	May 1, 1924.
Cherry street (city proper).....	7 feet west of Washington street to 8 feet east of Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	319	567	1892	
Cherry street (city proper).....	8 feet east of Shawmut avenue to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	8	14	1898	
Chester street (Brighton).....	Commonwealth avenue to 20 feet north of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	20	50	1917	May 21, 1923.
Chester street (Brighton).....	10 feet south of Brighton avenue to Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Chester street (Brighton).....	Brighton avenue to 10 feet north of Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Chestnut street (city proper).....	At Brimmer street. Trinidad asphalt. Laid by Central Construction Company.	1	3	1915	
Chestnut Hill avenue (Brighton).....	At Washington street. Bitulithic. Laid by Warren Brothers Company.....	4	20	1913	
Chestnut Hill avenue (Brighton).....	Intersection of north roadway. Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	90	587	1918	May 21, 1923.
Child street (West Roxbury).....	At South street. Bitulithic. Laid by Warren Brothers Company.....	3	11	1913	
Chilmark street (Brighton).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.....	19	76	1915	
Chipman street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
Chiswick road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	46	170	1918	May 21, 1923.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Church street (city proper).....	Boylston street to 55 feet south of Boylston street. Pine wood block. Laid by Clark & Gore.	55	193	1915	
Church street (city proper).....	55 feet south of Boylston street to 10 feet north of Providence street. Pine wood block. Laid by Coleman Brothers.	100	292	1913	
Church street (city proper).....	6 feet south of Fayette street to 6 feet north of Melrose street. Pine wood block. Laid by Fred S. and A. D. Gore Corporation.	174	518	1911	
Church street (West Roxbury).....	10 feet north of Centre street to 46 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	36	106	1920	Unfinished.
Church street (West Roxbury).....	Centre street to 10 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	10	33	1920	Unfinished.
Claremont park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
Clarendon street (city proper).....	Tremont street to 11 feet north of Tremont street. Asphalt. Laid by B. E. Grant Company.	.....	3	1920	Sept. 18, 1925.
Clarendon street (city proper).....	Unionite. Laid by B. E. Grant Company.....	11	47	1920	Sept. 18, 1925.
Clarendon street (city proper).....	11 feet north of Tremont street to 4 feet south of Warren avenue. Bitulithic. Laid by Warren Brothers Company.	320	1,422	1914	
Clarendon street (city proper).....	Each side of Warren avenue. Pine wood block. Laid by Boston Paving Company.	8	40	1913	
Clarendon street (city proper).....	4 feet north of Warren avenue to 5 feet south of Columbus avenue. Bitulithic. Laid by Warren Brothers Company.	855	3,806	1914	
Clarendon street (city proper).....	5 feet south of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	24	1906	
Clarendon street (city proper).....	15 feet south of Boylston street to Boylston street. Pine wood block. Laid by Coleman Brothers.	15	60	1914	

Clarendon street (city proper).....	Boylston street to 14 feet north of Boylston street. Pine wood block. Laid by Coleman Brothers.	14	56	1914
Clarendon street (city proper).....	14 feet north of Boylston street to 46 feet north of Boylston street. Bitu- lithic. Laid by Coleman Brothers.	32	101	1914
Clarendon street (city proper).....	46 feet north of Boylston street to 19 feet south of Newbury street. Bitu- lithic (crushed stone base). Laid by Warren Brothers Company.	202	839	1905
Clarendon street (city proper).....	19 feet south of Newbury street to 61 feet north of Newbury street. Bitu- lithic (macadam base). Laid by Warren Brothers Company.	116	467	1919 June 4, 1924.
Clarendon street (city proper).....	61 feet north of Newbury street to south street line of Commonwealth ave- nue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	203	816	1905
Clarendon street (city proper).....	South street line of Commonwealth avenue to north street line of Common- wealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	200	730	1916
Clarendon street (city proper).....	North street line of Commonwealth avenue to Beacon street. Bitulithic. Laid by Warren Brothers Company.	565	2,260	1905
Clark street (city proper).....	Hanover street to 18 feet east of Hanover street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	18	35	1896
Clark street (city proper).....	18 feet east of Hanover street to 8 feet west of North street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	263	566	1892
Clarkwood street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.....	8	25	1918 Nov. 4, 1923.
Claybourne street (Dorchester).....	187 feet south of Dakota street to Park street. Bitulithic. Laid by James Doherty.	914	2,654	1915
Cleveland place (city proper).....	Margaret street to 192 feet northwest of Margaret street. Concrete (arti- ficial stone). Laid by V. Grande.	192	293	1918 May 29, 1923.
Cobb street (city proper).....	9 feet west of Washington street to 9 feet east of Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	987	1897
Cobb street (city proper).....	9 feet east of Shawmut avenue to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	9	27	1898
Colonial avenue (Dorchester).....	At Talbot avenue. Brick block. Laid by James Doherty.....	16	87	1911

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Columbia street (South Boston).....	At Hamlin street. Topeka (macadam base). Laid by John T. Shea, Jr.	.....	51	1920	Sept. 28, 1925.
* Columbia road (Dorchester).....	Bridge over New York, New Haven & Hartford Railroad. Metropolitan brick.	163	362	1903	
* Columbia road (Dorchester).....	Bridge over Shoreham street. Mack brick.....	59	131	1902	
* Columbia road (Dorchester).....	Edward Everett square to Stoughton street (east roadway). Bitulithic (macadam base). Laid by Warren Brothers Company.	1,416	4,444	1915	
Columbia road (Dorchester).....	83 feet south of Dudley street across Davenport avenue. Topeka (Telford macadam base). Laid by city force.	572	2,176	1919	
Columbia road (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	.....	210	1911	
	Mack brick block. Laid by city force.....	.....	152	1918	
* Columbia road (Dorchester).....	Hancock street to Blue Hill avenue (east roadway). Bitulithic (macadam base). Laid by Warren Brothers Company.	7,015	22,135	1915	
Columbia road (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	20	68	1912	
Columbus avenue (city proper).....	134 feet south of Arlington street to Boston & Albany Railroad Bridge. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	912	3,570	1904	
Columbus avenue (city proper).....	Bridge over New York, New Haven & Hartford Railroad (in street car tracks). Metropolitan brick block. Laid by Boston Elevated Railway Company.	.....	149	1906	
Columbus avenue (city proper).....	See Cazenove street.				
Columbus avenue (city proper).....	Boston & Albany Railroad Bridge to northerly side of Camden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	4,083	15,742	1906-07	
Columbus avenue (city proper and Roxbury).....	Northerly side of Camden street to 67 feet north of Station street. Ber- mudez asphalt. Laid by Boston Asphalt Company.	3,846	15,579	1906-07	



Columbus avenue (Roxbury) . . . . .	At Walnut avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	8	60	1917	Sept. 17, 1922.
Columbus square (city proper) . . . . .	Columbus avenue to 9 feet east of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	46	1906	
Columbus square (city proper) . . . . .	9 feet east of Columbus avenue to 4 feet east of Penbroke street. Bitulithic. Laid by Fred S. & A. D. Gore Company.	235	1,774	1912	
† Commonwealth avenue (city proper),	Arlington street to Berkeley street. Bitulithic (macadam base). Laid by Warren Brothers Company.	631	4,718	1916	Nov. 22, 1921.
† Commonwealth avenue (city proper),	Berkeley street to Clarendon street. Bitulithic (macadam base). Laid by Warren Brothers Company.	580	4,340	1916	Nov. 22, 1921
† Commonwealth avenue (city proper),	Clarendon street to Dartmouth street. Bitulithic (macadam base). Laid by Warren Brothers Company.	575	4,015	1916	Nov. 22, 1921.
† Commonwealth avenue (city proper),	Dartmouth street to Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	555	3,857	1916	Nov. 22, 1921.
† Commonwealth avenue (city proper),	Exeter street to Massachusetts avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,320	17,634	1916	Sept. 11, 1921
† Commonwealth avenue (Roxbury) . . .	Massachusetts avenue, across Charlesgate West. Bitulithic (macadam base). Laid by Warren Brothers Company.	1,107	8,340	1918	Nov. 1, 1923.
† Commonwealth avenue (Roxbury) . . .	Charlesgate West to street line of Beacon street. Bitulithic (macadam base). Laid by Warren Brothers Company. Asphalt block gutters. Laid by Warren Brothers Company. Aztec asphalt (macadam base). Laid by Bermudez Company. . . . .	908 { 7,443 693 533		1916 1918	Sept. 11, 1921. June 1, 1923.
* Commonwealth avenue (Roxbury and Brighton).	Beacon street to Cottage Farm Bridge (north roadway). Pine wood block. Laid by Clark & Gore. (South roadway.) Mexican asphalt (macadam base). Laid by Central Construction Company.	3,802	19,592	1915	
† Commonwealth avenue (Brighton) . . .	Cottage Farm Bridge over Boston & Albany Railroad. Sicilian rock asphalt. Laid by Boston Asphalt Company.	140	1,556	1917	May 21, 1923.
† Commonwealth avenue (Brighton) . . .	Cottage Farm Bridge, across Brighton avenue (not including next item). Mexican asphalt (macadam base). Laid by Central Construction Company.	3,591	26,243	1917-18	May 21, 1923.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
† Commonwealth avenue (Brighton)...	(South roadway.) 11 feet west of Winslow road to 210 feet west of Naples road. Endurite (macadam base). Laid by Warren Brothers Company.	.....	1,577	1912	
† Commonwealth avenue (Brighton)...	Brighton avenue to Harvard avenue (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	35	9,354	1917-18	May 21, 1923.
† Commonwealth avenue (Brighton)...	At Fuller street. Asphalt (macadam base). Laid by the Bermudez Company.	.....	63	1920	
† Commonwealth avenue (Brighton)...	Harvard avenue to the east curb line of Allston street (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	21	9,291	1917-18	May 21, 1923.
† Commonwealth avenue (Brighton)...	At Buckminster street. Topoka. Laid by Domecick Vozzella Company.	.....	32	1919	Nov. 28, 1924.
† Commonwealth avenue (Brighton)...	West curb line of Allston street to the north street line of Warren street (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	.....	3,172	1917	May 21, 1923.
† Commonwealth avenue (Brighton)...	(Northerly roadway.) East street line Kimroff road to east street line Chestnut Hill avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	.....	3,603	1918	May 21, 1923.
† Commonwealth avenue (Brighton)...	Westerly street line Chestnut Hill avenue to Newton line (north road). Mexican asphalt (macadam base). Laid by Central Construction Company.	.....	8,122	1917-18	May 21, 1923.
Compton street (city proper).....	At Tremont street. Topoka. Laid by Rowe Construction Company.	13	38	1919	May 31, 1924.
Conant street (Roxbury).....	Parker street to Huntington avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	1,556	3,625	1919	Nov. 1, 1924.
Concord square (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
Concord square (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	41	1906	

			201	388	1900
Congress square (city proper).....	Congress street, across Congress square. Laid by Barber Asphalt Paving Company.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.		
Congreve street (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by the Bernudez Company.		19	52	1920
Cooper street (city proper).....	North Margin street to east side of Endicott street. Laid by Barber Asphalt Paving Company.	Trinidad asphalt.	163	504	1887
Cooper street (city proper).....	East side of Endicott street to 10 feet east of Washington Street North. Mexican asphalt. Laid by Central Construction Company.		231	680	1917
Corbett street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....		46	184	1914
Corey street (Charlestown).....	124 feet north of Moulton street to Moulton street. Laid by Barber Asphalt Paving Company.	Trinidad asphalt.	124	289	1897
Cornhill court (city proper).....	At Washington street. Pine wood block. Laid by James Doherty.....		9	8	1908
Corning street (city proper).....	Washington street to 8 feet east of Shawmut avenue. Laid by Warren Brothers Company.	Acne asphalt.	329	700	1908
Corona street (Dorchester).....	At Geneva avenue and Bowdoin street. Mack brick. Laid by Central Construction Company.		10	27	1911
Corona street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.		1	3	1920
Cornwall street (West Roxbury).....	At Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.		7	23	1919
Cortes street (city proper).....	At Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.		8	20	1911
Court avenue (city proper).....	At Washington street. Mack brick block.....		7	8	1910
Court street (city proper).....	Washington street to 9 feet west of Washington street. Pine wood block. Laid by James Doherty.		9	27	1908
Court street (city proper).....	9 feet west of Washington street to 5 feet east of Court square west. Laid by the Bernudez Company.	Asphalt.	293	810	1920
Court square (city proper).....	(East road) Court street to 35 feet south of Court street. Laid by the Bernudez Company.	Asphalt.	35	79	1920

Dec. 6, 1924.

List of Streets Having a Smooth Pavement.—Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Court square (city proper).....	(East road) 35 feet south of Court street to 20 feet north of Williams court. Acme asphalt. Laid by Warren Brothers Company.	236	735	1914	
Court square (city proper).....	(East road) 20 feet north of Williams court to south of Williams court. Acme asphalt. Laid by Warren Brothers Company.	37	118	1913	
Court square (city proper).....	(South road) East road. Court square to West road. Court square. Acme asphalt. Laid by Warren Brothers Company.	74	181	1913	
Court square (city proper).....	(West road) 291 feet south of Court street to 266 feet south of Court street. Acme asphalt. Laid by Warren Brothers Company.	25	65	1913	
Court square (city proper).....	(West road) 266 feet south of Court street to 148 feet south of Court street. Acme asphalt. Laid by Barber Asphalt Paving Company.	118	305	1914	
Court square (city proper).....	(West road) 148 feet south of Court street to 8 feet south of Court street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	140	346	1901	
Cumberland street (city proper).....	At Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	17	1896	
Cummings road (Brighton).....	114 feet west of Corey road to Commonwealth avenue. Mexican asphalt. Laid by Central Construction Company.	903	2,212	1917	Aug. 8, 1922.
Cummington street (Roxbury).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	21	74	1917	May 21, 1923.
Cunard street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Com- pany.	16	60	1906	
Curtis street (East Boston).....	Each side Saratoga street. Aztec asphalt. Laid by Bernudez Company.	16	71	1919	May 1, 1924.
Curtis street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by E. R. Taylor Company.	41	139	1906	
Cushing avenue (Dorchester).....	At Columbia road. Topeka (macadam base). Laid by city force.....	7	40	1918	

	975	1920	Unfinished.
Cushman road (Brighton).....	334	1920	Unfinished.
Murdock street to Etna street. Asphalt. Laid by John J. Lane.			
Etna street to 6 feet east of Glencoe street. Asphalt. Laid by John J. Lane,	308	1920	Unfinished.
6 feet east of Glencoe street to Glencoe street. Mexican asphalt. Laid by Central Construction Company.	6	1917	
At South street. Bitulithic. Laid by Warren Brothers Company.....	1	1913	
At India street. Mexican asphalt. Laid by Central Construction Com- pany.	2	1917	
8 feet north of West Fifth street to 2 feet north of Gold street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	134	1889	
14 feet southwest of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.....	{	1917	Oct. 18, 1922.
Bessener brick block gutters. Laid by Warren Brothers Company.....	14 {	1917	Oct. 18, 1922.
West Broadway to 13 feet northeast of West Broadway. Acme asphalt. Laid by Warren Brothers Company.....	{	1917	Oct. 18, 1922.
Bessener brick block gutters. Laid by Warren Brothers Company.....	13 {	1917	Oct. 18, 1922.
2 feet north of Woodcliff street to 3 feet south of Dove street. Bitulithic. Laid by Warren Brothers Company.	294	1906	
At Washington street. Pine wood block. Laid by William J. Barry.....	3	1913.	
At Geneva avenue. Topeka (macadam base). Laid by department forces, by Central Construction Company.	1	1920	
Dorchester avenue to 5 feet west of Ames street. Mack brick block. Laid by Central Construction Company.	571	1910	
6 feet west of Holbrook street to Orchard street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	589	1915	
At Tremont street. Asphalt. Laid by B. E. Grant Company.....	4	1920	Sept. 18, 1925.
Each side of Warren avenue. Pine wood block. Laid by Boston Paving Company.	8	1913	
At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	16	1906	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Dartmouth street (city proper).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by New York, New Haven & Hartford Railroad Company. Metropolitan brick block (in street car tracks). Laid by Boston Elevated Railway Company.	118	397 117	1913 1901	
Dartmouth street (city proper).....	3 feet south of Stuart street to Huntington avenue. Bitulithic. Laid by James Doherty.	386	1,776	1912	
Dartmouth street (city proper).....	Huntington avenue to 83 feet south of Boylston street. Bitulithic. Laid by Coleman Brothers.....	151	134 496 501	1914 1912 1901	
Dartmouth street (city proper).....	Acme asphalt. Laid by Warren Brothers Company..... Trinidad asphalt. Laid by Barber Asphalt Paving Company.....	68	10 473 67	1912 1914 1901	
Dartmouth street (city proper).....	83 feet south of Boylston street to 15 feet south of Boylston street. Acme asphalt. Laid by Warren Brothers Company. Bitulithic. Laid by Coleman Brothers..... Trinidad asphalt. Laid by Barber Asphalt Paving Company.....	15	128	1914	
Dartmouth street (city proper).....	15 feet south of Boylston street to Boylston street. Pine wood block. Laid by Coleman Brothers.	15	117	1914	
Dartmouth street (city proper).....	Boylston street to 15 feet north of Boylston street. Pine wood block. Laid by Coleman Brothers.	129	890	1914	
Dartmouth street (city proper).....	15 feet north of Boylston street to north street line Public Alleys Nos. 349 and 440. Bitulithic. Laid by Coleman Brothers.	120	938	1914	
Dartmouth street (city proper).....	North street line Public Alleys Nos. 439 and 440 to 4 feet south of New- bury street. Bitulithic. Laid by Warren Brothers Company.	286	2,228	1903	
Dartmouth street (city proper).....	4 feet south of Newbury street to 9 feet south of south street line of Com- monwealth avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company. Bitulithic at Newbury street. Laid by Warren Brothers Company.....	75		1919	June 4, 1924.

Dartmouth street (city proper).....	9 feet south of south street line of Commonwealth avenue to 10 feet north of north street line of Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	219	1,636	1916	Nov. 22, 1921.
Dartmouth street (city proper).....	10 feet north of north street line of Commonwealth avenue to Beacon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	554	4,329	1903	
Davenport street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	26	66	1906-07	
Davis street (city proper).....	11 feet east of Washington street to 26 feet west of Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	286	570	1892	
Davis street (city proper).....	26 feet west of Harrison avenue to Harrison avenue. Aztec asphalt. Laid by Bernudez Company.	26	54	1918	
Day street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barber & Underwood, Inc.	5	36	1910	
Dearborn place (Roxbury).....	At Dearborn street. Acene asphalt. Laid by Warren Brothers Company.	5	8	1916	Nov. 20, 1922.
Dearborn street (Roxbury).....	Albany street to 56 feet south of Albany street. Mexican asphalt. Laid by Bernudez Company.	56	212	1918	
Dearborn street (Roxbury).....	56 feet south of Albany street to 27 feet north of Dudley street. Acene asphalt. Laid by Warren Brothers Company. Bessener brick block gutters. Laid by Warren Brothers Company.	497	1,233 220	1916-17 1916-17	Nov. 20, 1922 Nov. 20, 1922.
Dearborn street (Roxbury).....	27 feet north of Dudley street to Dudley street. Mack brick block. Laid by James Doherty.	27	176	1910	
Decatur street (city proper).....	9 feet east of Washington street to 34 feet west of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	718	1892	
Decatur street (city proper).....	34 feet west of Harrison avenue to Harrison avenue. Aztec asphalt. Laid by Bernudez Company.	34	49	1918	
Dover street (Dorchester).....	North street line Melvin side terrace to Roach street. Mexican asphalt. Laid by Central Construction Company.	540	1,203	1919	Aug. 22, 1924.
Deerfield street (Roxbury).....	Commonwealth avenue to 18 feet north of Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	18	94	1915	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Derne street (city proper) .....	Temple street to 5 feet east of Hancock street. Laid by J. E. Burns & Co.	305	610	1909	
Derne street (city proper) .....	5 feet east of Hancock street to Hancock street. Bitulithic. Laid by Warren Brothers Company.	5	30	1902	
Devonshire street (city proper) .....	Dock square to 75 feet south of Dock square (west side). Pine wood block. Laid by Bernard E. Grant.	.....	44	1916	Dec. 14, 1921.
Devonshire street (city proper) .....	75 feet south of Dock square to State street (each side of tracks). Pine wood block. Laid by Bernard E. Grant.	230	517	1916	Dec. 14, 1921.
Devonshire street (city proper) .....	5 feet north of State street to 6 feet south of Water street. Pine wood block. Laid by Bernard E. Grant.	391	1,278	1916	Dec. 14, 1921.
Devonshire street (city proper) .....	6 feet south of Water street to 1 foot north of Milk street. Pine wood block. Laid by James Doherty.	255	765	1920	June 20, 1925.
Devonshire street (city proper) .....	17 feet south of Milk street to north side of Franklin street. Pine wood block. Laid by James Doherty.	418	1,408	1920	June 20, 1925.
Devonshire street (city proper) .....	9 feet north of Summer street to Summer street. Pine wood block. Laid by Northern Construction Company.	9	51	1915	
DeWolf street (Dorchester) .....	At Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	8	24	1911	
Dighton street (Brighton) .....	At Washington street. Bitulithic (macalam base). Laid by Warren Brothers Company.	10	27	1920	July 8, 1925.
Dillaway street (city proper) .....	Dore street to 2 feet north of Hollis street. Bitulithic. Laid by James Doherty.	259	452	1914	
Dillaway street (city proper) .....	2 feet north of Hollis street to Hollis street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	4	1891	



Dillon street (city proper).....	Lenox street to Sawyer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	204	295	1902
Dane street (city proper).....	8 feet west of Broad street to 297 feet west of Broad street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	289	577	1910
Doane street (city proper).....	297 feet west of Broad street to 7 feet east of Kilby street. Aztec asphalt. Laid by James Doherty.	13	27	1919
Doane street (city proper).....	7 feet east of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	7	16	1919 Oct. 10, 1924.
Don street (Dorchester).....	At Callender street. Trinidad asphalt. Laid by D. M. Biggs & Co.	1	3	1915
Dorchester avenue (Dorchester).....	67 feet north of Victoria street to 10 feet south of Hallam street. Pine wood block. Laid by William J. Barry.	476	2,128	1919 Aug. 21, 1924.
Dorchester avenue (Dorchester).....	118 feet south of Bellows place to 2 feet north of Richmond street. Pine wood block. Laid by James Doherty.	453	1,177	1917 Nov. 12, 1922.
Dorchester street (South Boston).....	55 feet north of East Broadway to East Broadway. Bitulithic. Laid by Warren Brothers Company.	55	180	1919 June 11, 1924.
Dorchester avenue (South Boston).....	3 feet north of Ralston street to north side of bridge over Old Colony Railroad. Pine wood block. Laid by William J. Barry.	527	1,932	1919 Aug. 21, 1924.
Dorchester street (South Boston).....	West Broadway to 129 feet north of West Eighth street, minus intersections at West Fourth and West Fifth streets, and (west side) from 129 feet north of West Eighth street to West Eighth street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	1,312	5,775	1905
Dorchester street (South Boston).....	91 feet north of Vinton street to Vinton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	190	190	1904
Dorchester street (South Boston).....	8 feet north of Rogers street to 154 feet north of Dorchester avenue. Bitulithic. Laid by Warren Brothers Company.	152	613	1914
Dore street (city proper).....	9 feet west of Washington street to 8 feet east of Tremont street. Bitulithic. Laid by Warren Brothers Company.	437	775	1914
Dore street (city proper).....	3 feet east of Tremont street to Tremont street. Pine wood block. Laid by Bernard F. Grant.	3	6	1917 Nov. 15, 1922.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Doris street (Dorchester).....	At Treadway road. Aztec asphalt. Laid by Central Construction Com- pany.	7	21	1916	Nov. 17, 1921.
Dove street (Roxbury).....	At Blue Hill avenue. Mexican asphalt (crushed stone base). Laid by Cen- tral Construction Company.	3	9	1917	
Dove street (Roxbury).....	At Dacia street. Bitulithic. Laid by Warren Brothers Company.....	1	3	1906	
Dover street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	.....	15	1920	Sept. 18, 1925.
Downing street (Roxbury).....	Whittier street to Vernon street. Mack brick block. Laid by J. E. Burns & Co.	323	750	1909	
Draper street (Dorchester).....	At Bowdoin street. Aztec asphalt (macadam base). Laid by Bermudez Company.	11	32	1919	May 9, 1924.
Dudley street (Roxbury).....	70 feet west of Guild row to 24 feet east of Harrison avenue. Pine wood block. Laid by James Doherty.	841	4,134	1912	
Dudley street (Roxbury).....	21 feet east of Harrison avenue to 4 feet east of Magazine street. Mack brick block. Laid by James Doherty.	2,666	10,755	1910	
Dudley street (Roxbury).....	Dunmore street to Magazine street (east side). Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	350	1902	
Dunbar avenue (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	40	1918	Sept. 25, 1923.
Dunbar avenue (Dorchester).....	9 feet west of Washington street to 491 feet west of Washington street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	482	1,768	1919	June 3, 1924.
Dundee street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	13	1901	
Dunlap street (Dorchester).....	Washington street to 11 feet west of Washington street. Pine wood block. Laid by William J. Barry.	11	25	1913	

Dunlap street (Dorchester).....	11 feet west of Washington street to 6 feet east of Whitfield street. Trinidad asphalt. Laid by William J. Rafferty & Co.	787	1,759	1915
Dunmore street (Roxbury).....	Dudley street to 57 feet east of Dudley street. Mack brick block. Laid by James Doherty.	57	135	1910
Dunster road (West Roxbury).....	Centre street to 2 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	2	7	1919 Aug. 12, 1924.
Dunster road (West Roxbury).....	2 feet north of Centre street to 7 feet south of Dane street. Mexican asphalt. Laid by Central Construction Company.	854	2,468	1917 June 12, 1922.
Dunster road (West Roxbury).....	7 feet south of Dane street to Dane street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	7	23	1915
Dunster road (West Roxbury).....	Dane street to 7 feet north of Dane street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	7	26	1915
Dunster road (West Roxbury).....	7 feet north of Dane street to Pond street. Mexican asphalt. Laid by Central Construction Company.	900	2,606	1917 June 12, 1922.
Dustin street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	1918 Dec. 24, 1923.
Dustin street (Brighton).....	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.	12	37	1919 Sept. 4, 1924.
Dwight street (city proper).....	6 feet west of Shawmut avenue to 11 feet east of Tremont street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	696	2,017	1893
Dwight street (city proper).....	11 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	11	33	1920 Sept. 18, 1925.
E street (South Boston).....	5 feet south of Bolton street to West Third street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	106	392	1892
E street (South Boston).....	15 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.	15	58	1917 Oct. 18, 1922.
E street (South Boston).....	West Broadway to 24 feet southwest of West Broadway. Acme asphalt. Laid by Warren Brothers Company.	24 {	83	1917
E street (South Boston).....	Bessemer brick block gutters. Laid by Warren Brothers Company.		8	1917 Oct. 18, 1922.
E street (South Boston).....	24 feet southwest of West Broadway, across West Fourth street. Bitulithic. Laid by Warren Brothers Company.	311	1,137	1903

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
E street (South Boston).....	West Seventh street to West Eighth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	311	500	1904	
East Broadway (South Boston).....	West side of Dorchester street to west side L street. Bitulithic. Laid by Warren Brothers Company.	2,731	10,248	1919	June 11, 1924.
Eastburn street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	23	1920	July 8, 1925.
Eastman street (Dorchester).....	At Elder street. Topeka. Laid by Central Construction Company.....	7	21	1920	Oct. 14, 1925.
East Concord street (city proper).....	At Albany street. Pine wood block. Laid by Bernard E. Grant.....	12	45	1917	
East Cottage street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	.....	104	1920	Sept. 22, 1925.
East Fourth street (South Boston).....	Dorchester street to 4 feet east of Dorchester street. Bitulithic. Laid by Warren Brothers Company.	4	17	1905	
East Fourth street (South Boston).....	8 feet west of K street, across P street. Pine wood block. Laid by John E. Quinn.	2,655	8,681	1919	May 24, 1925.
East Fourth street (South Boston).....	P street to 96 feet west of Farragut road. Pine wood block. Laid by James Doherty.	426	1,450	1911	
East Fourth street (South Boston).....	96 feet west of Farragut road to Farragut road. Mack brick block. Laid by James Doherty.	96	329	1911	
East Newton street (city proper).....	Washington street to Harrison avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	604	2,205	1919	April 23, 1924.
East Newton street (city proper).....	Harrison avenue to 13 feet west of Albany street. Aztec asphalt (macadam base). Laid by Bernudez Company.	701	2,634	1919	May 14, 1924.
Easton street (Brighton).....	North Harvard street to Myrick street. Asphalt. Laid by John J. Lane....	660	1,911	1920	Nov. 20, 1925.

			634	1920	Nov. 20, 1925.
Easton street (Brighton) .....	Myrick street to 7 feet west of Mansfield street. Asphalt. Laid by John J. Lane.	218		1920	Nov. 20, 1925.
Easton street (Brighton) .....	7 feet west of Mansfield street to 64 feet west of Mansfield street. Asphalt (macadam base). Laid by John J. Lane.	57	131	1920	Nov. 20, 1925.
Eaton street (city proper) .....	At North Russell street. Aztec asphalt. Laid by Hernandez Company. ....	3	6	1917	Nov. 3, 1922.
Edinboro' street (city proper) .....	Essex street to Beach street. Acme asphalt. Laid by Warren Brothers Company.	464	916	1912	
Edson street (Dorchester) .....	At Norfolk street. Bitulithic. Laid by James Doherty. ....	9	43	1914	
Elder street (Dorchester) .....	Columbia road to Humphreys street. Topeka. Laid by Central Construction Company.	816	2,512	1920	Oct. 14, 1925.
Eleanor street (Brighton) .....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1919	Sept. 4, 1924.
Elko street (Brighton) .....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	29	1919	Sept. 4, 1924.
Elgin street (West Roxbury) .....	Centre street to West Roxbury branch, Boston & Providence Division, New York, New Haven & Hartford Railroad. Trinidad asphalt. Laid by Charles J. Jacobs Company.	596	1,722	1915	
Eliot street (city proper) .....	On south side at Broadway. Pine wood block. Laid by Coleman Brothers	.....	99	1914	
Eliot street (city proper) .....	East side of Broadway to Columbus avenue. Pine wood block. Laid by United States Wood Preserving Company.	164	723	1907	
Eliot street (West Roxbury) .....	At Centre street. Bitulithic. Laid by Warren Brothers Company. ....	2	7	1913	
Elizabeth street (Dorchester) .....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company. ....	8	25	1918	Nov. 4, 1923.
Elm Hill avenue (Roxbury) .....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	19	83	1917	Sept. 17, 1922.
Emerald street (city proper) .....	7 feet south of Castle street to 7 feet north of Dover street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	898	2,599	1904	
Emerson street (South Boston) .....	125 feet west of East Broadway to East Broadway. Bitulithic. Laid by Warren Brothers Company.	125	524	1919	June 11, 1924

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Emerson street (South Boston) .....	East Broadway to 34 feet east of East Broadway. Bitulithic. Laid by Warren Brothers Company.	34	139	1919	June 11, 1924.
Emerson street (South Boston) .....	7 feet west of K street to K street Pine wood block. Laid by John E. Quinn.	7	21	1920	May 24, 1925.
Emerson street (South Boston) .....	22 feet west of East Fourth street to East Fourth street. Pine wood block. Laid by John E. Quinn.	22	88	1920	May 24, 1925
Emerson street (South Boston) .....	8 feet west of M street to M street. Pine wood block. Laid by John E. Quinn.	8	20	1920	May 24, 1925.
Enlilcott street (city proper) .....	Cooper street, across Thatcher street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	320	1,082	1899	
Epping street (Dorchester) .....	Washington street to 1 foot east of Norfolk street. Mexican asphalt. Laid by Central Construction Company.	240	557	1917	May 25, 1922.
Epping street (Dorchester) .....	1 foot east of Norfolk street to Norfolk street. Bitulithic. Laid by James Doherty.	1	6	1913	
Essex place (city proper) .....	Tufts street to 7 feet south of Essex street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	195	336	1901	
Essex street (Brighton) .....	Commonwealth avenue to 22 feet north of Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	22	161	1915	
Essex street (Brighton) .....	From 22 feet north of Commonwealth avenue to bridge abutment. Aztec asphalt. Laid by Bernudez Company.	240	679	1918	
Essex street (Brighton) .....	Bridge abutment to Cambridge line. Pine wood block. Laid by James Doherty.	520	1,445	1913	
Etna street (Brighton) .....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company..	10	35	1918	Dec. 24, 1923.
Etna street (Brighton) .....	At Cushman road. Asphalt. Laid by John J. Lane.	39	113	1920	Unfinished.

Euclid street (Dorchester)	At Washington street. Topoka (macadam base). Laid by Warren Brothers Company.	10	33	1918	Sept. 25, 1923.
Eustis street (Roxbury)	138 feet east of Winslow street to 163 feet west of Albany street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	130	241	1903	
Eustis street (Roxbury)	12 feet west of Dearborn street to Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	12 {	29 {	1916 {	Nov. 20, 1922.
Eustis street (Roxbury)	Bessemer brick block gutters. Laid by Warren Brothers Company.	7	7	1916	Nov. 20, 1922.
Eustis street (Roxbury)	Dearborn street to 6 feet east of Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	6 {	16 {	1916 {	Nov. 20, 1922.
Eustis street (Roxbury)	Bessemer brick block gutters. Laid by Warren Brothers Company.	1,270	3,689	1914	
Eustis street (Roxbury)	6 feet east of Dearborn street to 9 feet west of Hampden street. Bitulithic. Laid by John F. Beatty.				
Eustis street (Roxbury)	Hampden street to Magazine street. Bitulithic. Laid by John F. Beatty.	686	1,990	1914	
Evelyn street (Dorchester)	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918	Nov. 4, 1923.
Everett avenue (Dorchester)	At Stoughton street. Topoka (macadam base). Laid by department forces.	4	21	1920	
Everett street (Brighton)	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	1918	Dec. 24, 1923.
Everton street (Dorchester)	Olney street to Geneva avenue. Topeka. Laid by Central Construction Company.	677	2,026	1916	June 26, 1922.
Exchange place (city proper)	8 feet east of Congress street to 36 feet west of Kilby street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	207	597	1903	
Exchange place (city proper)	30 feet west of Kilby street to 9 feet west of Kilby street. Aztec asphalt. Laid by James Doherty.	21	62	1919	
Exchange place (city proper)	9 feet west of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	9	27	1919	Oct. 10, 1924.
Exchange street (city proper)	173 feet north of State street to 25 feet south of Dock square. Pine wood block. Laid by Central Construction Company.	139	242	1913	
Exeter place (city proper)	8 feet west of Chauncey street to 7 feet east of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	155	353	1897	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Exeter street (city proper).....	At Huntington avenue. Bitulithic. Laid by Fred S. & A. D. Gore Corporation. Bitulithic. Laid by Warren Brothers Company.....	.....	14 5	1912 1909	
Exeter street (city proper).....	Huntington avenue to 16 feet south of Boylston street. Bitulithic. Laid by Boston Elevated Railway Company.	541	2,126	1914	
Exeter street (city proper).....	16 feet south of Boylston street to Boylston street. Bitulithic. Laid by Coleman Brothers.	16	85	1914	
Exeter street (city proper).....	Boylston street to 15 feet north of Boylston street. Bitulithic. Laid by Warren Brothers Company.	15	62	1919	June 24, 1924.
Exeter street (city proper).....	15 feet north of Boylston street to south street line Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	552	2,208	1919	June 24, 1924.
Exeter street (city proper).....	South street line of Commonwealth avenue to north street line of Com- monwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	200	730	1916	Nov. 22, 1921.
Exeter street (city proper).....	South side of Marlborough street. Bitulithic. Laid by James Doherty.....	3	13	1914	
Exeter street (city proper).....	North side of Marlborough street. Bitulithic. Laid by James Doherty.....	2	9	1914	
Exeter street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	9	1909	
Fabin street (city proper).....	Newland street to Ivanhoe street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	415	606	1895	
Fabyan street (Dorchester).....	15 feet east of Blue Hill avenue to 4 feet east of Harvard street. Trinidad asphalt. Laid by Martino DeMatteo.	687	1,981	1915	
Fabyan street (Dorchester).....	4 feet east of Harvard street to Harvard street. Topeka. Laid by Rowe Contracting Company.	4	15	1920	June 1, 1925.



		10	31	1920	July 8, 1925.
<b>Fairbanks street (Brighton)</b> .....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.				
<b>Fairfield street (city proper)</b> .....	Boylston street to 5 feet north of Boylston street. Bitulithic. Laid by Warren Brothers Company.	5	23	1913	
<b>Fairfield street (city proper)</b> .....	13 feet south of Newbury street. Bitulithic (macadam base). Laid by Warren Brothers Company.	60	267	1919	June 4, 1924.
<b>Fairfield street (city proper)</b> .....	Each side of Marlborough street. Bitulithic. Laid by James Doherty.....	6	26	1914	
<b>Fairfield street (city proper)</b> .....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	12	1909	
<b>Falkland terrace (Brighton)</b> .....	Hobart street to Brookdale road. Topeka. Laid by John J. Lane.....	661	1,949	1920	Sept. 25, 1925.
<b>Falmouth street (Roxbury)</b> .....	30 feet north of Norway street to 6 feet north of Massachusetts avenue. Pine wood block. Laid by James Doherty.	634	2,433	1909	
<b>Falmouth street (Roxbury)</b> .....	6 feet north of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	6	25	1901	
<b>Farquhar street (West Roxbury)</b> .....	Intersection of Selwyn street. Topeka (macadam base). Laid by Martino DeMatteo.	33	85	1920	Nov. 11, 1925.
<b>Farquhar street (West Roxbury)</b> .....	Selwyn street to Centre street. Topeka. Laid by Martino DeMatteo.....	905	2,620	1920	Nov. 11, 1925.
<b>Farrington avenue (Brighton)</b> .....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914	
<b>Faxon street (Roxbury)</b> .....	At Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	16	1919	Nov. 8, 1924.
<b>Fay street (city proper)</b> .....	5 feet west of Harrison avenue to 8 feet south of Dover street. Sicilian rock asphalt (cobble base). Laid by Boston Asphalt Company.	305	532	1894	
<b>Fayette street (city proper)</b> .....	Broadway to 7 feet west of Broadway. Pine wood block. Laid by Coleman Brothers.	7	16	1913	
<b>Fayette street (city proper)</b> .....	7 feet west of Broadway to Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	839	1,914	1911	
<b>Federal street (city proper)</b> .....	Milk street to 8 feet south of Franklin street. Pine wood block. Laid by James Doherty.	474	1,670	1919	Unfinished.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires
Fenelon street (Dorchester) .....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1912	
Ferdinand street (city proper) .....	See Arlington square.				
Fernboro street (Dorchester) .....	Lawrence avenue to Intervale street. Trinidad asphalt. Laid by James Doherty.	487	1,412	1916	June 28, 1921.
Fletcher street (West Roxbury) .....	Each side of Centre street. Asphalt (macadam base). Laid by the Bernudez Company.	18	58	1920	Unfinished.
Flint street (Dorchester) .....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.....	8	25	1918	Nov. 4, 1923.
Florence street (city proper) .....	10 feet east of Washington street to 8 feet west of Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	341	694	1917	
Florida street (Dorchester) .....	King street to Lonsdale street. Topeka (macadam base). Laid by city force.	567	1,326	1919	
Florida street (Dorchester) .....	Lonsdale street to Templeton street. Topeka (macadam base). Laid by city force.	573	1,407	1919	
Florida street (Dorchester) .....	Templeton street to Ashmont street. Topeka (macadam base). Laid by city force.	694	1,592	1919	
Ford street (East Boston) .....	Saratoga street to 62 feet north of Saratoga street. Standard asphalt. Laid by Bernudez Company.	62	271	1918	May 1, 1924.
Fordham road (Brighton) .....	Brighton avenue to Commonwealth avenue. Mexican asphalt. Laid by Central Construction Company.	624	1,481	1917	July 2, 1922.
Foster street (Brighton) .....	Each side of Washington street. Bitulithic Laid by Warren Brothers Company.	22	151	1920	July 8, 1925.
Foster street (Brighton) .....	At Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	3	10	1918	May 21, 1923.
Fotller road (Dorchester) .....	Each side of Walk Hill street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	24	94	1919	June 18, 1924.

		20	67	1916-17	Aug. 2, 1923.
Frankfort street (East Boston).....	At Neptune road. Mexican asphalt. Laid by Central Construction Company.				
Franklin street (city proper).....	At Federal street. Pine wood block. Laid by James Doherty.....	10	40	1919	Unfinished.
Franklin street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Company.	1	4	1901	
Fruit street (city proper).....	Blossom street to 2 feet north of Charles street. Acme asphalt. Laid by Warren Brothers Company.....	947 {	1,425	1917	Nov. 15, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.		563	1917	Nov. 15, 1922.
Fruit street (city proper).....	To 2 feet north of Charles street to Charles street. Pine wood block. Laid by John McCourt Company.	2	10	1920	Aug. 20, 1925.
Fuller street (Brighton).....	At Commonwealth avenue. Asphalt (macadam base). Laid by the Bermudez Company.	20	79	1920	
G street (South Boston).....	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Company.	58	193	1919	June 11, 1924.
G street (South Boston).....	110 feet north of East Sixth street to 178 feet north of East Seventh street. Bitulithic. Laid by Warren Brothers Company.	230	828	1905	
Gaffney street (Brighton).....	Commonwealth avenue to Boston & Albany Railroad. Mexican asphalt. Laid by Central Construction Company.	779 {	3,914	1917	June 29, 1922
	Pine wood block (brows to street car rails). Laid by Central Construction Company.		28	1917	June 29, 1922.
Gainsborough street (Roxbury).....	10 feet east of Huntington avenue to Providence Division of New York, New Haven & Hartford Railroad. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	539	2,037	1903	
Garden Court street (city proper).....	North square to 7 feet south of Fleet street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	226	365	1906	
Gardner street (Brighton).....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914	
Garrison street (city proper).....	At Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	16	1896	
Gates street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	5	16	1905	
Gay street (Roxbury).....	At Linden Park street. Mack brick block. Laid by J. E. Burns & Co.....	8	19	1909	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Quaranty Expires.
Gaylord street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	3	9	1913	
Genesee street (city proper).....	Harrison avenue to 15 feet east of Harrison avenue. Aztec asphalt. Laid by Bermudez Company.	15	34	1918	
Genesee street (city proper).....	15 feet east of Harrison avenue to 66 feet west of Albany street. Seyssed rock asphalt. Laid by Jones & Meehan.	431	956	1899	
Genesee street (city proper).....	66 feet west of Albany street to 15 feet west of Albany street. Asphalt. Laid by the Bermudez Company.	51	114	1920	
Geneva avenue (Dorchester).....	185 feet west of Beechwood street to 9 feet east of Bowdoin street. Mack brick block. Laid by Central Construction Company.	1,329	5,123	1911	
Geneva avenue (Dorchester).....	9 feet east of Bowdoin street to Bowdoin street. Topeka. Laid by city force.	9	20	1919	
Geneva avenue (Dorchester).....	Bowdoin street to 222 feet south of Charles street. Topeka (macadam base). Laid by department forces.	2,384	4,208	1920	
Geneva avenue (Dorchester).....	112 feet north of Vinson street to 9 feet south of Vinson street. Topeka (macadam base). Laid by department forces.	151	222	1920	
Geneva avenue (Dorchester).....	Park street to 10 feet north of Dorchester avenue. Topeka (macadam base). Laid by department forces.	465	1,797	1920	
Geneva avenue (Dorchester).....	At Levant street. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	.....	54	1919	Nov. 24, 1924.
Glenarm street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	23	1912	
Glencoe street (Brighton).....	North Beacon street to 1 foot south of North Beacon street. Bitulithic. Laid by Warren Brothers Company.	1	3	1918	Dec. 24, 1923.
Glencoe street (Brighton).....	1 foot south of North Beacon street to Saybrook street. Mexican asphalt. Laid by Central Construction Company.	415	972	1917	Aug. 2, 1922.

				1917	Aug. 2, 1922.
Glencoe street (Brighton).....	Saybrook street to 7 feet south of Garden street. Mexican asphalt. Laid by Central Construction Company.	346	820	1917	
Glendale street (Dorchester).....	At Columbia road. Bitulithic. Laid by Warren Brothers Company.....	5	28	1915	
Glendale street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	23	1910-11	
Glendower road (West Roxbury).....	Kittredge street to Poplar street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	1,926	5,578	1915-16	July 14, 1921.
Glenville avenue.....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914	
Glenville avenue (Brighton).....	58 feet west of Spofford road to 44 feet west of Greylock road. Asphalt (macadam base). Laid by John J. Lane.	74	275	1920	Nov. 5, 1925.
Glenville avenue (Brighton).....	44 feet west of Greylock road to 21 feet east of Long avenue. Asphalt. Laid by John J. Lane.	557	1,723	1920	Nov. 5, 1925.
Glenville avenue (Brighton).....	Long avenue to 24 feet west of Long avenue. Trinidad asphalt. Laid by Central Construction Company.	22	93	1914	
Glenville avenue (Brighton).....	21 feet east of Long avenue to Long avenue. Trinidad asphalt. Laid by Central Construction Company.	21	80	1914	
Glenville avenue (Brighton).....	24 feet west of Long avenue to Allston street. Asphalt. Laid by John J. Lane.	379	1,097	1920	Nov. 5, 1925.
Glenway street (Dorchester).....	At York street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	17	1919	Dec. 10, 1924.
Gloucester street (city proper).....	At Boylston street. Bitulithic. Laid by Warren Brothers Company.....	5	23	1913	
Gloucester street (city proper).....	Each side of Newbury street. Pine wood block. Laid by United States Wood Preserving Company.	7	31	1901	
Gloucester street (city proper).....	East side of Marlborough street. Bitulithic. Laid by James Doherty.....	6	26	1914	
Gloucester street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	13	1909	
Gold street (South Boston).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	82	118	1918	

## List of Streets Having a Smooth Pavement.—Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Gold street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Jones & Meehan.....	512	730	1901	
Gold street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	513	741	1901	
Gold street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	4	6	1903	
Goldsmith street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	12	27	1919	Aug. 12, 1924.
Gordon street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	1918	Dec. 24, 1923.
Gordon street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1919	Sept. 4, 1924.
Gove street (East Boston).....	8 feet east of Venice street to Cottage street. Topeka. Laid by Warren Brothers Company.	434	1,430	1917-18	April 26, 1923.
Grace street (Dorchester).....	Walton street to Roslin street. Bitulithic. Laid by D. M. Biggs & Co.....	303	873	1915	
Granby street (Roxbury).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore....	19	88	1915	
Gray street (city proper).....	At Clarendon street. Bitulithic. Laid by Warren Brothers Company.....	3	7	1904	
Green street (West Roxbury).....	10 feet east of Washington street to 7 feet west of Call street. Topeka. Laid by Central Construction Company.	878	2,751	1919	Dec. 6, 1924
Greenough avenue (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	18	1913	
Greenview avenue (West Roxbury).....	Centre street to 413 feet east of Centre street. Topeka. Laid by John Kelly Company.	413	686	1919	Oct. 30, 1924.
Greenville street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	8	20	1910	
Greenwich park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	

			1919	July 1, 1924.
Greenwich street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.	365	1,383	1919
Greenwood street (Dorchester).....	At York street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	35	Dec. 10, 1924.
Groton street (city proper).....	Washington street to Shawmut avenue (block base). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	316	528	1892
Guild row (Roxbury).....	42 feet north of Dudley street to Dudley street. Pine wood block. Laid by James Doherty.	42	257	1912
Gurney street (Roxbury).....	At Parker street. Aztec asphalt (macadam base). Laid by Bernudez Company.	8	26	1919
H street (South Boston).....	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Company.	53	184	June 11, 1924.
Half Moon street (Dorchester).....	At Lingard street. Bitulithic. Laid by James Doherty.	1	8	1915
Hall street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bernudez Company.	2	6	Sept. 28, 1923.
Hallam street (Dorchester).....	Dorchester avenue to 10 feet east of Dorchester avenue. Pine wood block. Laid by William J. Barry.	10	31	Aug. 21, 1924.
Hallam street (Dorchester).....	10 feet east of Dorchester avenue to Auckland street. Mexican asphalt. Laid by Martino DeMatteo.	311	897	June 30, 1924.
Halleck street (Roxbury).....	At Station street. Bitulithic. Laid by John F. Beatty.	1	3	1914
Hamilton street (Dorchester).....	Each side of Bowdoin street. Aztec asphalt. Laid by Bernudez Company.	39	132	May 9, 1924.
Hamlet street (Dorchester).....	Belden street to Columbia road. Trinidad asphalt. Laid by Central Construction Company.	409	909	1915
Hamlin street (South Boston).....	East Eighth street to Columbia road. Topeka. Laid by John T. Shea, Jr.	266	772	Sept. 28, 1925.
Hannond street (city proper).....	Shawmut avenue to Tremont street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	1,115	4,214	1912
Hampshire street (Roxbury).....	Ruggles street to Whittier street. Mack brick block. Laid by J. E. Burns & Co.	362	1,050	1909

## List of Streets Having a Smooth Pavement.—Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Hampshire street (Roxbury).....	Whittier street to Vernon street. Mack brick block. Laid by J. E. Burns & Co.	364	1,055	1909	
Hampshire street (Roxbury).....	Vernon street to Linden Park street. Mack brick block. Laid by J. E. Burns & Co.	645	1,864	1909	
Hampstead road (West Roxbury).....	Arborway to 1,000 feet northwest of Arborway. Topeka. Laid by John Kelly Company.	1,000	3,250	1919	Oct. 29, 1924.
Hancock street (city proper).....	Mt. Vernon street to 4 feet north of Mt. Vernon street. Mack brick block.	4	14	1901	
Hancock street (city proper).....	4 feet north of Mt. Vernon street to 7 feet south of Cambridge street. Bitu- lithic (crushed stone base). Laid by Warren Brothers Company.	928	2,353	1902	
Hancock street (Dorchester).....	At Columbia road (west road). Bitulithic (macadam base). Laid by War- ren Brothers Company.	.....	281	1915	
Hancock street (Dorchester).....	Columbia road to 345 feet northwest of DeWolf street (not including next item). Mack brick block. Laid by Central Construction Company.	2,199	9,189	1910-11	
Hancock street (Dorchester).....	(East side) 73 feet north of Howe street to 88 feet north of Cameron street. Concrete road. Laid by city force.	.....	408	1918	
Hancock street (Dorchester).....	At Bowdoin street. Mack brick block. Laid by Central Construction Com- pany.	.....	205	1913	
Hancock street (Dorchester).....	345 feet northwest of DeWolf street to 19 feet west of Dorchester avenue. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	1,416	5,684	1911	
Hanover avenue (city proper).....	Hanover street to North street. Aztec asphalt. Laid by Bermudez Com- pany.	300	306	1919	
Hanover street (city proper).....	(West side) Tileston street, across Charter street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	315	425	1907	
Hanover street (city proper).....	(East side) Tileston street, across Charter street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	323	1896	



[illegible]

## List of Streets Having a Smooth Pavement. — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Harrison avenue (city proper).....	7 feet south of East Springfield street to 104 feet south of East Springfield street (east side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	140	1888	
Harrison avenue (city proper).....	6 feet north of East Springfield street to Northampton street, not including 7 feet south of East Springfield street to 104 feet south of East Springfield street (east side). Bitulithic (crushed stone base). Laid by Warren Brothers Company.	508	1,174	1905	
Harrison avenue (city proper).....	Northampton street to East Lenox street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	427	1,090	1903	
Harrison avenue (Roxbury).....	At Dudley street. Pine wood block. Laid by James Doherty.....	16	72	1912	
Harvard avenue (Brighton).....	19 feet south of Cambridge street to Brighton avenue. Bitulithic. Laid by Coleman Brothers.....	843 {	2,594	1914	
	Pine wood block (between tracks and brows to tracks). Laid by Coleman Brothers.		587	1914	
Harvard avenue (Brighton).....	Brighton avenue to north street line of Commonwealth avenue. Bitulithic. Laid by Coleman Brothers.....	884 {	3,211	1914	
	Pine wood block (between tracks and brows to tracks). Laid by Coleman Brothers.		600	1914	
Harvard avenue (Brighton).....	North side of Commonwealth avenue to south side of Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	180	635	1917-18	May 21, 1923.
Harvard avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	16	90	1912	
Harvard Bridge (city proper).....	Boston side of draw to 270 feet west of southerly abutment. Jennison Wright slab paving. Laid by Rowe Contracting Company.	708	4,001	1919	
Harvard Bridge (city proper).....	270 feet west of southerly abutment to southerly abutment. Jennison Wright slab paving. Laid by Rowe Contracting Company.	270	1,540	1919	

		15	46	1918	June 8, 1923.
Harvard square (Charlestown).....	At Harvard street. Aztec asphalt (macadam base). Laid by Bermudez Company.			1918	June 8, 1923.
Harvard street (Charlestown).....	4 feet south of Harvard square to 17 feet south of Devens street. Aztec asphalt (macadam base). Laid by Bermudez Company.	443	1,270	1918	June 8, 1923.
Harvard street (city proper).....	Washington street 9 feet west of Harrison avenue. Pine wood block. Laid by J. H. McCarthy.	401	844	1910	
Harvard street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	76	1912	
Harvard street (Dorchester).....	41 feet north of Falyvan street to 54 feet south of Brookview street. Topeka. Laid by Rowe Contracting Company.	652	2,452	1920	June 1, 1925.
Harwood street (Dorchester).....	Willowwood street to Luerne street. Trinidad asphalt. Laid by James Doherty.	723	2,112	1916	Dec 3, 1921.
Haskins street (Roxbury).....	Ruggles street to 6 feet south of Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	14	1907	
Haskins street (Roxbury).....	6 feet north of Vernon street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	13	1907	
Havelsack street (Dorchester).....	Blue Hill avenue to Morton street. Topeka. Laid by Rowe Contracting Company.	661	1,958	1920	July 28, 1925.
Haviland street (Roxbury).....	At Massachusetts avenue. Italian rock asphalt. Laid by Boston Asphalt Company.	5	14	1901	
Hawes street (city proper).....	9 feet east of Congress street to 8 feet west of Kilby street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	241	237	1904	
Hawes street (city proper).....	8 feet west of Kilby street to Kilby street. Aztec asphalt. Laid by James Doherty.	8	9	1919	
Hawley street (city proper).....	At Sumner street. Pine wood block. Laid by Northern Construction Company.	8	25	1915	
Hayward place (city proper).....	Washington street to 9 feet east of Washington street. Pine wood block. Laid by Bernard E. Grant.	9	20	1917	Nov. 4, 1922.
Hayward place (city proper).....	9 feet east of Washington street to Harrison avenue. Aene asphalt. Laid by Boston Paving Company.	251	87	1913	
	Asphalt. Laid by the Bermudez Company.....	.....	477	1920	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Heath street (Roxbury).....	Parker street to 7 feet north of Lawn street and from 72 feet north of Lawn street to 86 feet south of South Huntington avenue. Laid by Field, Barker & Underwood, Inc.	3,015	12,627	1910	
Helen street (Dorchester).....	7 feet west of Bernard street to 17 feet east of Talbot avenue. Trinidad asphalt. Laid by James Doherty.	331	1,003	1915	
Helen street (Dorchester).....	15 feet east of Talbot avenue to Talbot avenue. Mack brick block. Laid by James Doherty.	15	93	1911	
Hemenway street (Roxbury).....	At Boylston street. Bitulithic. Laid by Warren Brothers Company.....	5	25	1905	
Henry street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city force.....	20	101	1918	
Henry street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bermudez Company.....	10	34	1917	Dec. 15, 1922.
Henshaw street (Brighton).....	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.....	25 {	274 220	1913	Sept. 4, 1924.
	Bitulithic (macadam base). Laid by Warren Brothers Company.....			1919	
Hereford street (city proper).....	Each side of Newbury street. Pine wood block. Laid by Patrick McGovern.	7	31	1903	
Hereford street (city proper).....	Each side of Marlborough street. Bitulithic. Laid by James Doherty.....	6	28	1914	
Hereford street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	12	1907	
Herrick street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.....	10	28	1918	Dec. 24, 1923.
Hewlett street (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by the Bermudez Com- pany.	8	26	1920	Unfinished.
Highborn street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.....	10	28	1918	Dec. 24, 1923.
High street (Dorchester).....	At Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	8	29	1911	

Hillcrest street (West Roxbury).....	Elgin street to 7 feet south of Elgin street. Laid by Charles J. Jacobs Company.	7	23	1915
Hillcrest street (West Roxbury).....	7 feet south of Elgin street to Temple street. Laid by Central Construction Company.	518	1,507	1917
Hinkley street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	44	112	1920
Hinsdale street (Roxbury).....	Commonwealth avenue to 8 feet south of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	8	28	1917
Hinsdale street (Roxbury).....	8 feet south of Commonwealth avenue to Cunningham street. Mack brick block. Laid by Fred S. & A. D. Gore Corporation.	226	856	1911
Holbrook street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	9	27	1919
Hollis street (city proper).....	Trenmont street to 1 foot east of Trenmont street. Pine wood block. Laid by Bernard E. Grant.	1	3	1917
Hollis street (city proper).....	7 feet east of Trenmont street toward Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	254	478	1891
Holken street (Dorchester).....	8 feet west of Columbia road to 416 feet west of Columbia road. Mexican asphalt. Laid by Martino DeMatteo.	408	1,089	1919
Holiday street (Dorchester).....	Each side of Geneva avenue. Topeka (macadam base). Laid by department forces.	1	7	1920
Holton street (Brighton).....	Everett street to Antwerp street. Acene asphalt. Laid by John F. Lynch. . . .	694	2,007	1919
Holyoke street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07
Hones avenue (Dorchester).....	Each side of Geneva avenue. Topeka (macadam base). Laid by department forces.	2	9	1920
Honestead street (Roxbury).....	Elm Hill avenue to Humboldt avenue. Mexican asphalt. Laid by Central Construction Company.	1,123	3,253	1917
Hopestill street (Dorchester).....	3 feet south of Aspinwall road to 8 feet south of Aspinwall road. Barrington brick block. Laid by Charles J. Jacobs Company.	5	14	1907

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Hopstill street (Dorchester).....	10 feet south of Aspinwall road to 6 feet north of Southern avenue. Trinidad asphalt. Laid by Charles J. Jacobs Company.	302	872	1915	
Howe street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	
Howes street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	38	89	1920	Sept. 22, 1925.
Howland street (Roxbury).....	231 feet west of Humboldt avenue to 6 feet east of Harold street. Bitulithic. Laid by John F. Beatty.	422	1,219	1915	
Hubert street (Roxbury).....	8 feet west of Shawmut avenue to 3 feet east of Westminster street. Aztec asphalt. Laid by Central Construction Company.	444	1,282	1916	Aug. 18, 1921.
Hubert street (Roxbury).....	3 feet east of Westminster street to Westminster street. Topeka. Central Construction Company.	3	10	1919	June 24, 1924.
Hudson street (city proper).....	7 feet south of Beach street to 7 feet north of Kneeland street. Mexican asphalt. Laid by Central Construction Company.	306	816	1917	
Hudson street (city proper).....	7 feet south of Kneeland street to 6 feet north of Harvard street. Mexican asphalt. Laid by Central Construction Company.	358	955	1917	
Hudson street (city proper).....	6 feet south of Harvard street to 82 feet north of Curve street. Mexican asphalt. Laid by Central Construction Company.	822	2,192	1917	
Humboldt avenue (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	21	90	1917	Sept. 17, 1922.
Hunnewell avenue (Brighton).....	At Atkins street. Mexican asphalt. Laid by Central Construction Company.	7	18	1917	July 18, 1922.
Huntington avenue (city proper).....	At Buxton street (east side). Bitulithic. Laid by Coleman Brothers.		444	1914	
	Trinidad asphalt. Laid by Barber Asphalt Paving Company.		302	1901	

Huntington avenue (city proper) .....	Boylston street to 159 feet south of Boylston street (west side). Pine wood block. Laid by Coleman Brothers.	159	786	1914
Huntington avenue (city proper) .....	At St. James avenue. Bitulithic. Laid by James Doherty.....	100	578	1912
Huntington avenue (city proper) .....	At St. James avenue and Dartmouth street. Bitulithic. Laid by Boston Elevated Railway Company.	40	328	1914
Huntington avenue (city proper) .....	At Dartmouth street. Acme asphalt. Laid by Warren Brothers Company.	.....	180	1912
Huntington avenue (city proper) .....	159 feet south of Boylston street to 9 feet south of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.....	325 {	2,570 {	1901 {
Huntington avenue (city proper) .....	Bitulithic. Laid by Boston Elevated Railway Company.....	177 }	177 }	1914 }
Huntington avenue (city proper) .....	9 feet south of Dartmouth street to 84 feet north of bridge over Boston & Albany Railroad. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	600	3,350	1906
Huntington avenue (city proper) .....	84 feet north of bridge over Boston & Albany Railroad to bridge over Boston & Albany Railroad. Bitulithic. Laid by Warren Brothers Company.	84	490	1909
Huntington avenue (city proper) .....	At Exeter street. Bitulithic. Laid by Boston Elevated Railway Company.	.....	101	1914
Huntington avenue (city proper) .....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Central Construction Company.	92	633	1916
Huntington avenue (city proper) .....	Bridge over Boston & Albany Railroad to 70 feet south of bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by Simpson Brothers Corporation.	70	434	1909
Huntington avenue (city proper) .....	70 feet south of bridge over Boston & Albany Railroad to north side of Cumberland street, minus 685 feet north of West Newton street to 38 feet north of West Newton street (west roadway). Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,520	6,635	1896
Huntington avenue (city proper) .....	685 feet north of West Newton street to 38 feet north of West Newton street (west roadway). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	1,831	1907
Huntington avenue (Roxbury) .....	North side of Cumberland street to 10 feet north of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	737	4,083	1896
Huntington avenue (Roxbury) .....	9 feet south of Massachusetts avenue to 8 feet north of Gainsborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	570	3,155	1896

Dec. 11, 1921.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid	Guaranty Expires.
Huntington avenue (Roxbury, south side).	At Jamaica-way. Bitulithic (Telford macadam base). Laid by Warren Brothers Company.	.....	450	1920	Aug. 21, 1925.
Hyde Park avenue (Hyde Park, west side).	West street to River street. Topoka. Laid by Martino DeMatteo.....	.....	4,289	1920	Unfinished.
I street (South Boston).....	23 feet north of Emerson street to Emerson street. Bitulithic. Laid by Warren Brothers Company.	23	88	1919	June 11, 1924.
I street (South Boston).....	East Broadway to 23 feet south of East Broadway. Bitulithic. Laid by Warren Brothers Company.	23	87	1919	June 11, 1924.
I street (South Boston).....	23 feet south of East Broadway to 8 feet north of East Fourth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	242	914	1910	
Idlewild street (Brighton).....	Commonwealth avenue to 17 feet south of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	17	38	1917	May 21, 1923.
Idlewild street (Brighton).....	17 feet south of Commonwealth avenue to 7 feet north of Brainerd road. Bitulithic. Laid by Charles J. Jacobs Company.	362	1,046	1915	
Imrie street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	25	1919	Sept. 4, 1924.
India street (city proper).....	9 feet east of Milk street to angle near Export street. Mexican asphalt. Laid by Central Construction Company.	553	2,123	1917	
Intervale street (Dorchester).....	Each side of Normandy street. Aztec asphalt. Laid by Central Construction Company.	2	7	1916	Oct. 13, 1921.
Ipswich street (Roxbury).....	Bridge over waterway. Sicilian rock asphalt. Laid by Boston Asphalt Company.	61	267	1898	
Irma street (Dorchester).....	Callender street to 7 feet south of Callender street. Trinidad asphalt.....	7	32	1915	
Irma street (Dorchester).....	7 feet south of Callender street to Woodrow avenue. Bitulithic. Laid by Warren Brothers Company.	591	1,732	1919	May 26, 1924.



Irvington street (city proper).....	At Huntington avenue. Trinidad asphalt. Laid by Simpson Brothers Corporation.	5	20	1909
Isabella street (city proper).....	At Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	8	20	1911
Islington street (Brighton).....	At Brighton avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	22	1919 Sept. 4, 1924.
James street (city proper).....	Each side of East Newton street. Aztec asphalt (macadam base). Laid by Bernuilez Company.	17	64	1919 April 23, 1924.
Jerome street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	42	1911
Joiner street (Charlestown).....	Park street to Chelsea street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	161	413	1906
Jones avenue (Dorchester).....	Mascot street to Ballou avenue. Trinidad asphalt. Laid by James Doherty.	984	2,834	1916 June 13, 1921.
Jones avenue (Dorchester).....	At Wollaston terrace. Topeka. Laid by Rowe Contracting Company.....	.....	21	1920 July 29, 1925.
Josephine street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	6	1920
Joy street (city proper).....	Beacon street to 12 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	12	28	1917 Nov. 15, 1922.
Justin road (Brighton).....	Bigelow street to 7 feet east of Atkins street. Mexican asphalt. Laid by Central Construction Company.	466	1,369	1919 April 29, 1924.
Justin road (Brighton).....	7 feet east of Atkins street to Atkins street. Mexican asphalt. Laid by Central Construction Company.	7	18	1917 July 18, 1922.
K street (South Boston).....	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Company.	30	106	1919 June 11, 1924.
K street (South Boston).....	Each side of East Fourth street. Pine wood block. Laid by John E. Quinn.	32	127	1920 May 24, 1925.
K street (South Boston).....	East Fourth street to East Sixth street. American rock asphalt. Laid by Jones & Mehan.	593	2,088	1906
K street (South Boston).....	East Sixth street to East Eighth street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	566	1,083	1896

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Kemp street (South Boston).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	30	1919	Aug. 21, 1924.
Kennard avenue (city proper).....	At Poplar street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1887	
Kennard avenue (city proper).....	At Allen street. Mexican asphalt. Laid by Central Construction Company.	2	4	1917	
Kenneth street (West Roxbury).....	At Beech street. Topeka. Laid by Rowe Contracting Company.....	10	31	1920	Unfinished.
Kenney street (Roxbury).....	Day street to 503 feet west of Day street. Trinidad asphalt. Laid by James Doherty.	503	1,113	1915	
Kent street (Roxbury).....	Roxbury street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	440	933	1911	
Kenton road (West Roxbury).....	Washington street to 839 feet east of Washington street. Topeka. Laid by Rowe Contracting Company.	839	1,900	1919	Dec. 6, 1924.
Kenwood street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1913	
Kerwin street (Dorchester).....	At Talbot avenue (crosswalk). Barrington brick block. Laid by James Doherty.....	9	51	1907	
	Mack brick block. Laid by James Doherty.....	5	37	1911	
Keyes street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	3	11	1918	Sept. 28, 1923.
Kilby street (city proper).....	Milk street to 7 feet north of Milk street. Pine wood block. Laid by James Doherty.	7	83	1910	
Kilby street (city proper).....	7 feet north of Milk street to 9 feet south of State street. Pine wood block. Laid by James Doherty.	624	3,273	1919	Oct. 10, 1924
King street (Dorchester).....	At Florida street. Topeka (macadam base). Laid by city force.....		7	1919	
Kingston street (city proper).....	Summer street to 6 feet south of Summer street. Pine wood block. Laid by Northern Construction Company.	6	18	1915	

Kingston street (city proper).....	6 feet south of Essex street to 7 feet north of Beach street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	479	1,828	1910
Kirkland street (city proper).....	10 feet south of Broadway toward Corning street. Acme asphalt. Laid by Warren Brothers Company.	361	519	1909
Kittredge street (West Roxbury).....	Cornell street to Beech street. Bitulithic. Laid by Charles J. Jacobs Company.	547	1,588	1916 July 6, 1921
L street (South Boston).....	Each side of East Fourth street. Pine wood block. Laid by John E. Quinn.	17	58	1920 May 24, 1925
Laconia street (city proper).....	Washington street to Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	314	687	1917
La Grange street (city proper).....	Tremont street to 10 feet east of Tremont street. Pine wood block. Laid by Bernard E. Grant.	10	20	1917 Nov. 15, 1922
La Grange street (city proper).....	10 feet east of Tremont street to 303 feet west of Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	171	335	1897
Lake street (Brighton).....	At Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	16	81	1918 May 21, 1923
Lamont street (Roxbury).....	At Linden Park and Vernon streets. Mack brick block. Laid by J. E. Burns & Co.	14	25	1909
Lawn street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	32	1910
Lawn street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	23	1910
Lawrence street (city proper).....	At Berkeley street. Bitulithic. Laid by Warren Brothers Company.....	4	9	1906
Lawrence street (city proper).....	Each side of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	5	14	1914
Lawrence street (Charlestown).....	East side of Lawrence avenue, across Miller street. Sicilian rock asphalt. Laid by Jones & Meehan.	385	1,011	1901
Leicester street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	31	1919 July 8, 1925
Leroy street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces,	1	7	1920

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Leslie street (Dorchester).....	Dix street to Centre street. Trinidad asphalt. Laid by D. M. Biggs & Co.,	374	1,090	1915	
Levant street (Dorchester).....	Geneva avenue to Topliff street. Aztec asphalt. Laid by McGuire & McGourty.	689	2,019	1919	Nov. 24, 1924.
Lewis street (city proper).....	At Moon street. Bitulithic. Laid by Warren Brothers Company.....	1	2	1906	
Lincola place (city proper).....	Worcester street to 8 feet south of Worcester street. Mexican asphalt. Laid by Central Construction Company.	8	12	1919	Nov. 11, 1924.
Lincoln place (city proper).....	8 feet south of Worcester street to West Springfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	203	298	1897	
Linden street (Brighton).....	10 feet north of Brighton avenue to Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Linden street (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Linden street (Brighton).....	22 feet north of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	22	125	1917	May 21, 1923.
Linden Park street (Roxbury).....	12 feet east of Cabot street to 4 feet east of Elmwood street. Mack brick block. Laid by J. E. Burns & Co.	1,015	3,242	1909	
Lingard street (Dorchester).....	Magnolia street to Hartford street. Bitulithic. Laid by James Doherty,	594	1,791	1915	
Lithgow street (Dorchester).....	Wainwright street to Talbot avenue. Mexican asphalt. Laid by Central Construction Company.	683	2,042	1917	May 30, 1922.
Lithgow street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	34	1918	Sept. 25, 1923.
Long avenue (Brighton).....	6 feet north of Commonwealth avenue to 17 feet north of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	11	31	1918	May 21, 1923.

Long avenue (Brighton).....	16 feet north of Commonwealth avenue to Allston street. Laid by Central Construction Company.	Trinidad asphalt.	760	2,578	1914
Longwood avenue (Roxbury).....	51 feet north of Huntington avenue to 9 feet south of Brookline avenue. Mueck brick block. Laid by Field, Barker & Underwood, Inc.		2,078	7,850	1910
Lonsdale street (Dorchester).....	At Florida street. Topoka (macadam base). Laid by city force.....		42	121	1919
Lorette street (West Roxbury).....	Centre street to Hullerest street. Aztec asphalt. Laid by Central Construction Company.		502	1,451	1916 July 10, 1922.
Lorne street (West Roxbury).....	Harvard street to 646 feet northwest of Harvard street. Mexican asphalt. Laid by Central Construction Company.		646	1,880	1917 Oct. 15, 1922.
Lovell street (East Boston).....	At Neptune road. Mexican asphalt. Laid by Central Construction Company.		20	67	1917-18 Aug. 2, 1923.
Lovering street (city proper).....	8 feet east of Washington street to 8 feet west of Harrison avenue. Acme asphalt. Laid by James Doherty.		306	525	1913
Lucas street (city proper).....	Middlesex street to 2 feet north of Shawmut avenue. Asphalt blocks.....		98	81	1902
Lucas street (city proper).....	2 feet north of Shawmut avenue to Shawmut street. Sicilian rock asphalt. Laid by Boston Asphalt Company.		2	2	1898
Lucas street (city proper).....	Shawmut avenue to 2 feet south of Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.		2	2	1898
Lucas street (city proper).....	10 feet south of Shawmut avenue to 9 feet north of Washington street. Scoria block. Laid by Faving Service.		322	254	1915
Lucerne street (Dorchester).....	Callender street to 7 feet south of Callender street. Laid by D. M. Biggs & Co.	Trinidad asphalt.	7	38	1915
Lucerne street (Dorchester).....	7 feet south of Callender street to Woodrow avenue. Aztec asphalt. Laid by Bermudez Company.		805	2,357	1919 Oct. 20, 1924.
Lyndhurst street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....		10	30	1913
Lynn street (city proper).....	Cooper street to Thatcher street. Trinidad asphalt. Laid by Earler Asphalt Paving Company.		294	457	1906
M street (South Boston).....	At Emerson street. Pine wood block. Laid by John E. Quinn.....		7	30	1920 May 24, 1925.

## List of Streets Having a Smooth Pavement.—Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Mackin street (Brighton).....	Western avenue to Waverly street. Bitulithic. Laid by A. H. Archer.....	292	656	1915	
Magazine street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	10	30	1910	
Main street (Charlestown).....	Boston & Maine Railroad to Somerville line. Concrete road. Laid by city force.	139	672	1919	
Matland street (Roxbury).....	Beacon street to Boston & Albany Railroad. Mack brick block. Laid by Fred S. & A. D. Gore Corporation.	186	537	1912	
Maholin street (city proper).....	Pineknay street to Mt. Vernon street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	312	244	1912	
Malden street (city proper).....	54 feet south of Mt. Vernon street to 8 feet north of Chestnut street. Trini- dad asphalt. Laid by Barber Asphalt Paving Company.	200	150	1892	
Malden street (city proper).....	12 feet east of Washington street to Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	519	1,501	1902	
Mall street (Roxbury).....	At Dearborn street. Acme asphalt. Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.....	10 {	34 5	1916 1916	Nov. 20, 1922. Nov. 20, 1922.
Mallet street (Dorchester).....	At Florida street. Topeka (macadam base). Laid by city force.....	8	50	1919	
Malvern street (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917	Dec. 7, 1922.
Mansfield street (Brighton).....	Easton street to 7 feet south of Easton street. Asphalt. Laid by John J. Lane.	7	22	1920	Nov. 20, 1922.
Mansfield street (Brighton).....	7 feet south of Easton street to 34 feet south of Easton street. Asphalt (macadam base). Laid by John J. Lane.	27	51	1920	Nov. 20, 1922.
Maple street (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	20	48	1917	Sept. 17, 1922.

			375	1,084	1919	May 27, 1924.
Marble street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.				1919	
Marbury terrace (Roxbury).....	At Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	7	23		1919	Dec. 6, 1924.
Market street (Brighton).....	At Washington street. Bitulithic. Laid by Warren Brothers Company. Pine wood block (brows to street car rails). Laid by Warren Brothers Company.	3 {	41 1		1913 1913	
Marlborough street (city proper).....	Arlington street to 15 feet west of Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	15	60		1901 <sup>w</sup>	
Marlborough street (city proper).....	15 feet west of Arlington street to 10 feet east of Clarendon street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,226	4,904		1901	
Marlborough street (city proper).....	10 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	10	40		1905	
Marlborough street (city proper).....	Clarendon street to Dartmouth street. Bitulithic (macadam base). Laid by James Doherty.	575	2,300		1914	
Marlborough street (city proper).....	Dartmouth street, across Exeter street. Bitulithic (macadam base). Laid by James Doherty.	591	2,359		1914	
Marlborough street (city proper).....	Exeter street, across Fairfield street. Bitulithic (macadam base). Laid by James Doherty.	660	2,616		1914	
Marlborough street (city proper).....	Fairfield street, across Gloucester street. Bitulithic (macadam base). Laid by James Doherty.	562	2,248		1914	
Marlborough street (city proper).....	Gloucester street, across Hereford street. Bitulithic (macadam base). Laid by James Doherty.	435	1,740		1914	
Marlborough street (city proper).....	Hereford street, to Massachusetts avenue. Bitulithic (macadam base). Laid by James Doherty.	665	2,660		1914	
Marlborough street (Roxbury).....	Massachusetts avenue to 3 feet west. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	16		1901	
Marlborough street (Roxbury).....	11 feet west of Massachusetts avenue to Charlesgate East. Bitulithic (macadam base). Laid by James Doherty.	640	2,418		1914	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Marvin street (Roxbury).....	Shawmut avenue to Washington street. Pine wood block Paving Company	256	573	1913	
Mason street (city proper).....	West street to 6 feet south of West street. Black gum wood block Laid by United States Wood Preserving Company.	6	14	1908	
Mason street (city proper).....	6 feet south of West street to 213 feet south of West street. Asphalt. Laid by the Bernudez Company.	209	.....	1920	
Mason street (city proper).....	213 feet south of West street to 256 feet south of West street. Asphalt (granite block base). Laid by the Bernudez Company.	43	91	1920	
Mason street (city proper).....	256 feet south of West street to 449 feet south of West street. Bitulithic (granite block base). Laid by Warren Brothers Company.	130	300	1907	
Mason street (city proper).....	449 feet south of West street to 73 feet north of Avery street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	96	200	1909	
Mason street (city proper).....	73 feet north of Avery street to 63 feet north of Avery street. Scyssel rock asphalt. Laid by Jones & Meehan.	10	23	1899	
Mason street (city proper).....	63 feet north of Avery street to Avery street. Bitulithic. Laid by Coleman Brothers.	63	169	1914	
Mason street (city proper).....	Angle 53 feet north of Avery street to 12 feet east of Tremont street. Trini- dad asphalt. Laid by Barber Asphalt Paving Company.	73	175	1900	
Mason street (city proper).....	12 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	12	31	1915 <sup>o</sup>	
Massachusetts avenue (city proper)...	Albany street to 2 feet east of Harrison avenue. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Cor- poration. (South roadway.) Sicilian rock asphalt. Laid by Boston Asphalt Company.	622	1,899 1,866	1912 1894	
Massachusetts avenue (city proper)....	2 feet east of Harrison avenue to Harrison avenue. Bitulithic. Laid by Warren Brothers Company.	2	16	1905	



Massachusetts avenue (city proper)....	Harrison avenue to 3 feet west of Harrison avenue. Bitulithic. Laid by Warren Brothers Company.	3	25	1905
Massachusetts avenue (city proper)....	3 feet west of Harrison avenue to Washington street, (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation. Pine wood block. Laid by department forces. (South roadway.) Sicilian rock asphalt. Laid by Boston Asphalt Company.	670 {	{ 782 1,227 1,974	{ 1912 1920 1894
Massachusetts avenue (city proper)....	Washington street to Shawmut avenue. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation. (South roadway.) Acene asphalt. Laid by Warren Brothers Company.....	341 {	{ 1,003 1,008	{ 1912 1910
Massachusetts avenue (city proper)....	Shawmut avenue to 13 feet east of Tremont street. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation. (South roadway.) Acene asphalt. Laid by Warren Brothers Company.....	921 {	{ 2,889 2,946	{ 1912 1910
Massachusetts avenue (city proper)....	13 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	13	107	1920 Sept. 18, 1925.
Massachusetts avenue (city proper)....	Tremont street to 16 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	16	135	1920 Sept. 18, 1925.
Massachusetts avenue (city proper)....	16 feet west of Tremont street to 13 feet east of Columbus avenue. (North roadway.) Bitulithic. Laid by Warren Brothers Company..... (South roadway.) Acene asphalt. Laid by Warren Brothers Company.....	516 {	{ 1,597 1,568	{ 1907 1910
Massachusetts avenue (city proper)....	13 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	13	106	1906-07
Massachusetts avenue (city proper)....	Columbus avenue to Providence Division, New York, New Haven & Hartford Railroad. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	469	2,218	1903-06
Massachusetts avenue (Roxbury)....	Providence Division, New York, New Haven & Hartford Railroad to Huntington avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	551	2,100	1903-06
Massachusetts avenue (Roxbury)....	Huntington avenue, across Boylston street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,778	8,503	1901
Massachusetts avenue (Roxbury)....	Boylston street to bridge over Boston & Albany Railroad. Acene asphalt. Laid by Warren Brothers Company..... Sicilian rock asphalt. Laid by Boston Asphalt Company.....	99 {	{ 410 12	{ 1909 1901

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Massachusetts avenue (Roxbury).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Coleman Brothers.	75	500	1908	
Massachusetts avenue (Roxbury).....	Bridge over Boston & Albany Railroad to 47 feet north of Newbury street. Trinidad asphalt. Laid by James Doherty.	175	586	1914	
Massachusetts avenue (Roxbury).....	47 feet north of Newbury street to 27 feet south of Marlborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	656	3,301	1901	
Massachusetts avenue (city proper).....	27 feet south of Marlborough street to south side of Beacon street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	326	1,557	1901	
Massachusetts avenue (city proper).....	Each side of Beacon street. Pine wood block. Laid by James Doherty.....	.....	38	1920	Sept. 11, 1925.
Massachusetts avenue (city proper).....	Southerly side Beacon street to Harvard Bridge. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	237	1,080	1902	
Matchett street (Brighton).....	Washington street to 35 feet south of Pertshire road. Mexican asphalt. Laid by Central Construction Company.	852	2,105	1917	July 5, 1922.
Matchett street (Brighton).....	35 feet south of Pertshire road to north street line Pertshire road. Mexican asphalt.	68	197	1919	June 12, 1924.
Maverick square (East Boston).....	Summer street, across Maverick street. Aztec asphalt. Laid by Bermudez Company.	499	2,954	1917	Dec. 15, 1922.
Maverick street (East Boston).....	7 feet west of London street to 7 feet east of Havre street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	102	558	1903	
Maverick street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bermudez Company.....	11	45	1917	Dec. 15, 1922
Maverick street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by E. K. Taylor Company.....	38 {	59	1906-07	
May street (West Roxbury).....	Metropolitan brick block (in street car tracks).....		72		
	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	57	214	1919	Aug. 12, 1924

Mayfield street (Dorchester).....	50 feet east of Pleasant street to Pleasant street. Laid by Central Construction Company.	56	136	1920	Sept. 22, 1925.
Mayfield street (Dorchester).....	Pleasant street to 40 feet west of Pleasant street. Laid by Central Construction Company.	40	103	1920	Sept. 22, 1925.
Mayhew street (Dorchester).....	Roseclair street to Boston street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	846	2,461	1915	
Mayo street (city proper).....	7 feet south of Cystic street to Cobb street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	244	406	1897	
Maywood street (Roxbury).....	At Blue Hill avenue. Mexican asphalt. Laid by Central Construction Company.	3	17	1919	
McCraw street (West Roxbury).....	Belgrade avenue to New York, New Haven & Hartford Railroad. Topeka (macadam base). Laid by Martino DeMatteo.	131	380	1920	Nov. 2, 1925.
McLean court (city proper).....	101 feet south of McLean street (front of William Blackstone School). Brick Asphalt (cobble base). Laid by the Bermudez Company.	25 142	41 214	1920	
McLean street (city proper).....	Chambers street to 8 feet east of Blossom street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	510	1,307	1905	
McLean street (city proper).....	8 feet east of Blossom street to Blossom street. Acme asphalt. Laid by Warren Brothers Company.	8 {	39	1917	Nov. 15, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.		3	1917	Nov. 15, 1922.
Meander street (city proper).....	7 feet east of East Dedham street to 8 feet west of Malden street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	292	416	1896	
Meander street (city proper).....	8 feet west of Malden street to Malden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	8	11	1902	
Melrose street (city proper).....	Broadway to 7 feet west of Broadway. Pine wood block. Laid by Coleman Brothers.	7	19	1913	
Melrose street (city proper).....	7 feet west of Broadway to Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	737	1,885	1911	
Melville avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.	10	40	1913	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Melvin side terrace (Dorchester).....	Dorchester avenue to Deer street. Bitulithic. Laid by James Doherty.....	193	402	1915	Aug. 22, 1924.
	At Deer street. Mexican asphalt. Laid by Central Construction Company.....	.....	6	1919	
Mercer street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	4	16	1905	
Meridian street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bernudez Company.....	9	12	1917	Dec. 15, 1922.
Meridian street (East Boston).....	24 feet north of Trenton street to 9 feet east of Eutaw street. Sicilian rock asphalt. Laid by Jones & Meehan.	221	540	1900	
Middleton street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.....	9	26	1918	Nov. 4, 1923.
Middleton street (Dorchester).....	South street line of Wildwood street to 1 foot south of Theodore street. Bitulithic. Laid by Warren Brothers Company.	246	711	1919	May 27, 1924.
Middleton street (Dorchester).....	Theodore street to 1 foot south of Theodore street. Mexican asphalt. Laid by Central Construction Company.	1	3	1917	July 26, 1922.
Millford street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	14	48	1920	Sept. 18, 1925.
Milk street (city proper).....	20 feet west of east side of Pearl street, across Oliver street. Pine wood block. Laid by James Doherty.	300	1,156	1910	
Milk street (city proper).....	Oliver street to 8 feet west of Broad street. Pine wood block. Laid by James Doherty.	279	1,045	1911	
Miller street (Charlestown).....	10 feet west of Main street to Lawrence street. Sicilian rock asphalt. Laid by Jones & Meehan.	193	365	1901	
Millet street (Dorchester).....	Each side of Talbot avenue. Mack brick block. Laid by James Doherty..	26	135	1911	
Milton avenue (Dorchester).....	Each side of Norfolk street. Laid by James Doherty.....	18	123	1914	
Milton street (city proper).....	Spring street to 2 feet north of Spring street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	3	1895	

Milton street (city proper).....	2 feet north of Spring street to Brighton street. Seyssel rock asphalt. Laid by Jones & Neehan.	306	271	1899
Mindora street (Roxbury).....	At Station street. Bitulithic. Laid by John F. Beatty.....	1	3	1914
Minton street (West Roxbury).....	Brookside avenue to Amory street. Topeka. Laid by Warren Brothers Company.	421	1,000	1918 June 18, 1923.
Montebello road (West Roxbury).....	Forest Hills street to Walnut avenue. Bitulithic. Laid by Martino De Matteo.	1,077	3,051	1916 July 24, 1921.
Montclair avenue (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by the Bernudez Company.	8	26	1920 Unfinished.
Montfern avenue (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1920 July 8, 1925.
Montgomery street (city proper).....	Trenont street to 2 feet east of Clarendon street. Asphalt. Laid by B. E. Grant Company.	233	1,124	1920 Sept. 18, 1925.
Montgomery street (city proper).....	2 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	2	13	1913
Montgomery street (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	16	1914
Montgomery street (city proper).....	3 feet west of Clarendon street to 10 feet east of Dartmouth street. Asphalt (macadam base). Laid by B. E. Grant Company.	555	2,524	1920 Sept. 18, 1925.
Montgomery street (city proper).....	At West Canton street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	3	15	1916 Oct. 21, 1921.
Moon street (city proper).....	North square to 5 feet east of North square. Bitulithic. Laid by Warren Brothers Company.	5	11	1906
Moon street (city proper).....	5 feet east of North square to 6 feet west of Lewis street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	161	295	1891
Moon street (city proper).....	6 feet west of Lewis street to 7 feet east of Fleet street. Bitulithic. Laid by Warren Brothers Company.	100	188	1906
Moore street (East Boston).....	Saratoga street to 8 feet south of Saratoga street. Aztec asphalt. Laid by Bernudez Company.	8	34	1919 May 1, 1924.
	8 feet east of Saratoga street to Bennington street. Aztec asphalt (macadam base). Laid by Bernudez Company.	170	553	1919 May 1, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Moore street (East Boston).....	8 feet west of Saratoga street to Saratoga street. Aztec asphalt. Laid by Bernudez Company.	8	34	1919	May 1, 1924.
Morrill street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	17	51	1920	Sept. 22, 1925.
Morse street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1912	
Morton street (city proper).....	Salem street to 33 feet west of Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	33	26	1901	
Morton street (city proper).....	33 feet west of Salem street to 84 feet east of Endicott street. Concrete road. Laid by John E. Leahy Construction Company.	209	162	1918	
Morton street (city proper).....	84 feet east of Endicott street to 51 feet east of Endicott street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	33	26	1901	
Morton street (city proper).....	51 feet east of Endicott street to 6 feet east of Endicott street. Standard asphalt. Laid by Central Construction Company.	45	35	1916	
Morton street (Dorchester).....	At Baird street. Bitulithic. Laid by Warren Brothers Company.....	.....	290	1919	May 26, 1924.
Morton street (Dorchester).....	At Wilcock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	97	1920	July 7, 1925.
Morton street (Dorchester).....	At Havelock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	94	1920	July 28, 1925.
Morton street (Dorchester).....	Each side of Norfolk street. Bitulithic. Laid by Warren Brothers Company.	16	106	1918	Nov. 4, 1923.
Motley street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	9	21	1906	
Motte street (city proper).....	7 feet east of Washington street to 12 feet west of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	317	508	1892-99	

Moulton street (Charlestown).....	Easterly side of Corey street to Vine street. Laid by Barber Asphalt Paving Company.	81	243	1897
Moulton street (Charlestown).....	Vine street to 8 feet east of Bunker Hill street. Laid by Barber Asphalt Paving Company.	113	343	1897
Moultrie street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	8	24	1913
Mt. Ida road (Dorchester).....	At Bowdoin street. Pine wood block. Laid by James Doherty.....	11	67	1909
Mt. Ida road (Dorchester).....	201 feet north of Homes avenue to 182 feet north of Homes avenue. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	19	54	Dec. 26 1924.
Mt. Ida road (Dorchester).....	182 feet north of Homes avenue to Homes avenue. Aztec asphalt. Laid by McGuire & McGourty.	182	522	Dec. 26, 1924.
Mt. Ida road (Dorchester).....	West street line of Homes avenue (bend) to Robinson street. Aztec asphalt. Laid by McGuire & McGourty.	713	2,086	Dec. 26, 1924.
Mt. Pleasant avenue (Roxbury).....	Each side of Dudley street. Mack brick block. Laid by James Doherty.	21	73	1910
Mt. Vernon street (city proper).....	Archway under State House. Limer rock and Acme asphalts mixed. Laid by Porter & Pearl.	164	455	1911
Mt. Vernon street (city proper).....	State House to 7 feet west of Joy street. Canton block. Brick block	256	751	1901
Murdock street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	Dec. 24, 1923.
Murdock street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	19	64	Sept. 4, 1924.
Murdock street (Brighton).....	At Cushman road. Asphalt. Laid by John J. Lane.....	.....	10	Unfinished.
Museum road (Roxbury).....	Huntington avenue to the Fenway. Topeka. Laid by Warren Brothers Company.	625	2,072	April 16, 1923
Myrick street (Brighton).....	7 feet north of Easton street to 7 feet south of Easton street. Asphalt. Laid by John J. Lane.	40	120	Nov. 20, 1925
Mystic avenue (Charlestown).....	East side of bridge over Boston & Maine Railroad to Somerville line. Metropolitan brick.	187	756	1910
Mystic street (city proper).....	Malden street to 7 feet west of Malden street. Laid by Barber Asphalt Paving Company.	7	6	1902

List of Streets Having a Smooth Pavement.-- Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Mystic street (city proper) .....	7 feet west of Malden street to 7 feet east of East Dedham street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	190	209	1896	
Mystic street (city proper) .....	East Dedham street to East Canton street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	202	315	1896	
Mystic street (city proper) .....	East Canton street to East Brookline street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	202	315	1896	
N street (South Boston) .....	East Fourth street to 8 feet south of East Fourth street. Pine wood block. Laid by John E. Quinn.	8	33	1919	May 24, 1925.
Nashua street (city proper) .....	At post office. Pine wood block. Laid by city force. ....	17	72	1916	
Naesau street (city proper) .....	At Ash street. Acme asphalt. Laid by Warren Brothers Company. ....	7	15	1909	
Nelson street (Dorchester) .....	At Norfolk street. Bitulithic. Laid by James Doherty. ....	15	71	1914	
Neponset avenue (Dorchester) .....	Adams street to 25 feet south of Ashmont street (west side). Topeka. Laid by city force.	.....	3,596	1918	
Neptune road (East Boston) .....	West side Boston, Revere Beach & Lynn Railroad to Bennington street. Mexican asphalt. Laid by Central Construction Company.	1,700	8,492	1917-18	Aug. 2, 1923.
Neptune road (East Boston) .....	Bennington street to 10 feet north of Bennington street. Aztec asphalt. Laid by Bernudez Company.	10	75	1919	May 1, 1924.
Newburn street Roxbury) .....	Sterling street to Weston street. Topeka. Laid by Central Construction Company.	291	650	1919	July 7, 1924.
Newbury street (city proper) .....	Arlington street to Berkeley street. Bitulithic (macadam base). Laid by Warren Brothers Company.	632	2,524	1919	June 4, 1924.
Newbury street (city proper) .....	Berkeley street to Clarendon street. Bitulithic (macadam base). Laid by Warren Brothers Company.	576	2,327	1919	June 4, 1924.



Newbury street (city proper).....	Clarendon street to Dartmouth street. Bitulithic (macadam base). Laid by Warren Brothers Company.	575	2,333	1919	June 4, 1924.
Newbury street (city proper).....	Dartmouth street to Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	555	2,224	1919	June 4, 1924.
Newbury street (city proper).....	Exeter street to Fairfield street. Bitulithic (macadam base). Laid by Warren Brothers Company.	622	2,500	1919	June 4, 1924.
Newbury street (city proper).....	Fairfield street to 10 feet west of Fairfield street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	41	1919	June 4, 1924.
Newbury street (city proper and Roxbury).	10 feet west of Fairfield street to 8 feet east of Hereford street. Pine wood block. Laid by United States Wood Preserving Company.	937	3,748	1901	
Newbury street (Roxbury).....	8 feet east of Hereford street to 300 feet east of Massachusetts avenue. Pine wood block. Laid by Patrick McGovern.	413	1,652	1906	
Newbury street (Roxbury).....	Massachusetts avenue to 16 feet west of Massachusetts avenue. Trinidad asphalt. Laid by James Doherty.	16	55	1914	
Newland street (city proper).....	West Brookline street to Pembroke street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	158	228	1902	
Newland street (city proper).....	Pembroke street to West Newton street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	155	224	1902	
Nightingale street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	13	81	1911	
Norfolk street (Dorchester).....	Washington street to 6 feet south of Washington street. Pine wood block. Laid by William J. Barry.	6	75	1913	
Norfolk street (Dorchester).....	78 feet west of Talbot avenue to 57 feet east of Edison street. Bitulithic. Laid by James Doherty.....	1,795 {	6,550	1913	
	Pine wood block. (Brows to street car rails.) Laid by James Doherty.....		538	1913	
Norfolk street (Dorchester).....	57 feet east of Edison street to 51 feet east of bridge over New York, New Haven & Hartford Railroad, Midland Division. Bitulithic. Laid by James Doherty.....	2,292 {	8,071	1914	
	Pine wood block. (Brows to street car rails.) Laid by James Doherty.....		671	1914	
Norfolk street (Dorchester).....	51 feet east of bridge over New York, New Haven & Hartford Railroad, Midland Division, to bridge over New York, New Haven & Hartford Railroad Midland Division. Bitulithic. Laid by Warren Brothers Company.	51	200	1919	Oct. 11, 1924.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Norfolk street (Dorchester) .....	Bridge over New York, New Haven & Hartford Railroad, Midland Division, to 75 feet west of bridge over New York, New Haven & Hartford Railroad, Midland Division.	75	345	1919	Oct. 11, 1924.
Norfolk street (Dorchester) .....	75 feet west of bridge over New York, New Haven & Hartford Railroad, Midland Division, to Blue Hill avenue, Bitulithie. Laid by Warren Brothers Company.	3,592	17,692	1918	Nov. 4, 1923.
Norman street (city proper) .....	7 feet north of Green street to South Margin street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	391	697	1905	
Normandy street (Dorchester) .....	North side Intervale street to Devon street. Aztec asphalt. Laid by Central Construction Company.	485	1,403	1916	Oct. 13, 1921.
Normandy street (Dorchester) .....	Seaver street to Columbia road. Trinidad asphalt. Laid by James Doherty.	458	1,330	1915	
North square (city proper) .....	North street to Moon street. Bitulithie (crushed stone base). Laid by Warren Brothers Company.	235	1,217	1906	
Northampton street (city proper) .....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
Northampton street (city proper) .....	North side Tremont street. Asphalt. Laid by Bernard E. Grant Company.	.....	6	1920	Sept. 18, 1925.
Northampton street (city proper) .....	14 feet south of Tremont street to 9 feet north of Shawmut avenue. Wood block. Laid by Fred S. & A. D. Gore Corporation.	894	3,370	1911	
Northampton street (city proper) .....	Shawmut avenue to Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	370	648	1905	
Northampton street (city proper) .....	At Albany street. Pine wood block. Laid by Bernard E. Grant .....	.....	47	1917	Jan. 19, 1923.
North Anderson street (city proper) .....	7 feet south of Parkman street to Parkman street. Acme asphalt. Laid by Warren Brothers Company. .... Bessemer brick block gutters. Laid by Warren Brothers Company .....	7 {	16 4	1916 1916	Nov. 28, 1921. Nov. 28, 1921.

North Anderson street (city proper) . . . . .	Parkman street to Fruit street. Acme asphalt. Laid by Warren Brothers Company . . . . . Bessomer brick block gutters. Laid by Warren Brothers Company . . . . .	77 { 174 43	1916 1916	Nov. 28, 1921. Nov. 28, 1921.
North Beacon street (Brighton) . . . . .	Cambridge street to Market street. Bitulithic. Laid by Warren Brothers Company. . . . .	3,237	1918	Dec. 24, 1923.
North Beacon street (Brighton) . . . . .	East side of bridge over Charles river to the Watertown line. Pine wood block. Laid by A. G. Tomasello. . . . .	193	1917	
North Bennet street (city proper) . . . . .	Hanover street to Salem street. Trinidad asphalt. Laid by Barber Asphalt Paving Company. . . . .	455	1904	
North Grove street (city proper) . . . . .	Cambridge street to Fruit street. Acme asphalt. Laid by Warren Brothers Company . . . . . Bessomer brick block gutters. Laid by Warren Brothers Company . . . . .	458 { 1,265 245	1917 1917	Aug. 24, 1922. Aug. 24, 1922.
North Harvard street (Brighton) . . . . .	At Easton street. Asphalt (macadam base). Laid by John J. Lane. . . . .	43	1920	Nov. 20, 1925.
North Harvard street (Brighton) . . . . .	33 feet north of Soldiers Field road to Cambridge line. Pine wood block. Laid by Rowe Contracting Company. . . . .	219	1914	
North Margin street (city proper) . . . . .	Stillman street to 6 feet south of Thacher street. Trinidad asphalt. Laid by Barber Asphalt Paving Company. . . . .	511	1895	
North Margin street (city proper) . . . . .	6 feet north of Thacher street to 100 feet north of Thacher street. Sicilian rock asphalt. Laid by Boston Asphalt Company. . . . .	184	1897	
North Russell street (city proper) . . . . .	Cambridge street, across Eaton street. Aztec asphalt. Laid by Bermudez Company. . . . .	434	1917	Nov. 3, 1922
Norton street (Dorchester) . . . . .	East side of Bowdoin street. Aztec asphalt. Laid by Bermudez Company. . . . .	28	1919	May 9, 1924.
Norway street (Roxbury) . . . . .	Falmouth street to 4 feet west of St. Paul street. Pine wood block. Laid by United States Wood Preserving Company. . . . .	307	1909	
Norway street (Roxbury) . . . . .	East side of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company. . . . .	8	1901	
Norwell street (Dorchester) . . . . .	At Talbot avenue. Mack brick block. Laid by James Doherty. . . . .	13	1911	
Norwich street (city proper) . . . . .	Mystic street to Meander street. Sicilian rock asphalt. Laid by Boston Asphalt Company. . . . .	221	1896	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
O street (South Boston).....	East side of East Fourth street. Pine wood block. Laid by John E. Quinn.	18	74	1920	May 24, 1925.
Oakland street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	25	1920	July 8, 1925.
Oakley street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	6	1920	
Oak square avenue (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	11	31	1920	July 8, 1925.
Oakview terrace (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	10	50	1920	Dec. 22, 1925.
Oakwood street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
Ohio street (city proper).....	Washington street to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	264	1896	
Old Harbor street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company....	5	17	1905	
Oliver street (city proper).....	Milk street to 152 feet southerly. Pine wood block. Laid by James Doherty.	152	591	1910	
* Olmsted park, Jamaicaaway (Roxbury)	South curb line of Huntington avenue to 300 feet north of Willow Pond road. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,400	9,342	1920	July 28, 1925.
Olney street (Dorchester).....	At Rowdoin street. Aztec asphalt (macadam base). Laid by Bermudez Company.	30	165	1919	May 9, 1924.
Olney street (Dorchester).....	At Geneva avenue. Mack brick block. Laid by Central Construction Company.	32	204	1911	
Oneida street (city proper).....	27 feet west of Albany street to 13 feet west of Albany street. Asphalt. Laid by Bermudez Company.	14	29	1920	
Oneida street (city proper).....	7 feet east of Harrison avenue to 27 feet west of Albany street. Bitulithic. Laid by Warren Brothers Company.	480	1,014	1903	

		1	4	1914	
Orchard street (Roxbury).....	At Eustis street. Bitulithic. Laid by John F. Beatty.....	10	31	1919	Aug. 12, 1924.
Orchard street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	814	1,266	1916	Dec. 7, 1921.
Orchardfield street (Dorchester).....	Freeport street to Dorchester avenue. Aztec asphalt. Laid by Central Construction Company.	7	11	1919	Nov. 1, 1924.
Oregon street (Roxbury).....	At Conant street. Aztec asphalt (macadam base). Laid by Bermudez Company.	499	1,053	1920	
Oswego street (city proper).....	Harrison avenue to 13 feet west of Albany street. Asphalt. Laid by Bermudez Company.	8	29	1915	
Otis street (city proper).....	At Summer street. Pine wood block. Laid by Northern Construction Company.	415	734	1917	
Oxford street (city proper).....	8 feet north of Beech street to 7 feet south of Essex street (macadam base). Mexican asphalt. Laid by Central Construction Company.	15	53	1916	Nov. 28, 1921.
Paisley park (Dorchester).....	At Upland avenue. Aztec asphalt. Laid by Central Construction Company.	132	293	1906	
Palmer street (Roxbury).....	121 feet east of Winslow street to 203 feet west of Eustis street. Trinidad asphalt. Laid by Barbar Asphalt Paving Company.	100 } 2 }	715 290	1914 1915	
Park square (city proper).....	Boylston street to 100 feet south of Boylston street. Pine wood block. Laid by United States Wood Preserving Company.....	382	2,797	1907	
Park square (city proper).....	100 feet south of Boylston street, across Eliot street. Black gum wood block. Laid by United States Wood Preserving Company.	.....	325	1912	
Park street (city proper).....	At Providence street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	6	34	1915	
Park street (city proper).....	At Tremont street. Pine wood block. Laid by Coleman Brothers.....	326	959	1918	July 26, 1923.
Park street (Dorchester).....	3½ feet north of Tremont street to 152 feet south of Beacon street. Filbertine. Laid by Warren Brothers Company.	.....	2	1920	
Park street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	20	80	1913	
Park street (Dorchester).....	Each side of Washington street. Pine wood block. Laid by William J. Barry.				

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Park street (West Roxbury).....	At Atwill road. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	40	1919	Oct. 22, 1924.
Parker street (Roxbury).....	10 feet north of Edgar street to 8 feet south of Caldwell street. Bitulithic. Granite block base. Laid by Warren Brothers Company.	218	837	1912	
Parker street (Roxbury).....	8 feet south of Caldwell street to 6 feet north of Ward street. Standard asphalt and Aztec asphalt (granite block base). Laid by Central Construction Company.	457	1,767	1917	
Parker street (Roxbury).....	8 feet north of Conant street to Tremont street. Aztec asphalt (macadam base). Laid by Bernudez Company.	651	2,532	1919	Oct. 25, 1924.
Parkland street (Brighton).....	Winship street to Academy Hill road. Aztec asphalt. Laid by Coleman Brothers.	460	524	1917	Oct. 16, 1922.
Parkman street (city proper).....	North Grove street to 7 feet east of North Anderson street. Acme asphalt. Laid by Warren Brothers Company. ....	203 {	369	1916	Nov. 28, 1921.
Parkman street (city proper).....	Bessemer brick block gutters. Laid by Warren Brothers Company. ....		100	1916	Nov. 28, 1921.
Parkman street (city proper).....	7 feet east of North Anderson street, across Blossom street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	234	534	1898	
Parkman street (city proper).....	Blossom street to 7 feet of west North Russell street. Acme asphalt. Laid by Warren Brothers Company.	229	476	1910	
Parkman street (city proper).....	7 feet west of North Russell street to North Russell street. Aztec asphalt. Laid by Bernudez Company.	7	12	1917	Nov. 3, 1922.
Parkton road (West Roxbury).....	Perkins street to Perkins street. Concrete road. Laid by city forces. ....	1,169	2,903	1916	
Parkvale avenue (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Parkvale avenue (Brighton).....	10 feet south of Brighton avenue to Glenville avenue. Aztec asphalt. Laid by Bernudez Company.	879	2,548	1918	July 25, 1923.

		20	80	1917	Sept. 17, 1922.
Parkview street (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.				
Parmenter street (city proper).....	9 feet west of Hanover street to 9 feet east of Salem street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	265	723	1902	
Parmenter street (city proper).....	5 feet east of Salem street to Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	15	1901	
Parnell street (city proper).....	Lenox street to Sawyer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	250	348	1902	
Parsons street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	65	1919	July 8, 1923.
Paul street (city proper).....	Emerald street to 1 foot west of Emerald street. Bitulithic. Laid by Warren Brothers Company.	1	2	1904	
Paul street (city proper).....	1 foot west of Emerald street to 10 feet east of Tremont street, minus inter-sections at Village and Albion streets. Seyssel rock asphalt. Laid by Jones & Meehan.	368	635	1897	
Paul Gore street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	9	28	1920	Dec. 22, 1925.
Paul street (city proper).....	10 feet east of Tremont street to Tremont street. Topeka. Laid by Rowe Contracting Company.	10	17	1919	May 31, 1924.
Peacevale road (Dorchester).....	Norfolk street to 1 foot south of Norfolk street. Bitulithic. Laid by James Doherty.	1	4	1914	
Peacevale road (Dorchester).....	1 foot south of Norfolk street to 7 feet north of Dunbar avenue. Trinidad asphalt. Laid by D. M. Biggs & Co.	801	2,315	1915	
Pearl street (city proper).....	Milk street to 153 feet south of Milk street. Pine wood block. Laid by James Doherty.	153	508	1910	
Pearl street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry. ....	10	27	1919	Aug. 21, 1924.
Pearl street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	15	44	1920	Sept. 22, 1925.
Pelham street (city proper).....	Washington street to Shawmut avenue. Mexican asphalt. Laid by Central Construction Company.	303	655	1917	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Pemberton square (city proper).....	Front of Suffolk County Courthouse. Sicilian rock asphalt. Laid by Boston Asphalt Company.	323	1,365	1894 <sup>a</sup>	
Pembroke street (city proper).....	Each side of Tremont street. Asphalt. Laid by B. E. Grant Company....	32	125	1920	Sept. 18, 1925.
Pembroke street (city proper).....	At Columbus square. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	4	17	1912	
Percival street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city forces.....	2	7	1918	
Perham street (West Roxbury).....	New York, New Haven & Hartford Railroad to Vermont street. Mexican asphalt. Laid by Central Construction Company.	2,630	6,195	1917	Sept. 12, 1922.
Perth street (Dorchester).....	Quincy street to Fayston street. Bitulithic. Laid by James Dolerty.....	218	630	1915	
Perthshire road (Brighton).....	Bigelow street to Matchett street. Mexican asphalt. Central Construction Company.	593	1,716	1919	June 12, 1924.
Phillips street (Roxbury).....	Conant street to 7 feet south of Conant street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	18	1919	Nov. 1, 1924.
Phillips street (Roxbury).....	7 feet north of Smith street to Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	19	1919	Nov. 1, 1924.
Phillips street (Roxbury).....	Smith street to 7 feet south of Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	16	1919	Nov. 24, 1924.
Piedmont street (city proper).....	At Broadway. Pine wood block. Laid by Coleman Brothers.....	11	26	1913	
Pinckney street (city proper).....	Charles street, across Brimmer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	261	701	1895	
Pine street (city proper).....	7 feet east of Washington street to 10 feet west of Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	403	567	1896	
Pleasant street (Dorchester).....	East Cottage street to north side of Stoughton street. Topeka (macadam base). Laid by Central Construction Company.	1,415	5,823	1920	Sept. 22, 1925.



		1920	1920	Dec. 18, 1925.
Pleasant street (Dorchester).....	North side of Stoughton street to 20 feet south of Savin Hill avenue. Topeka. Laid by Francis J. Burke.	854	2,546	1920
Pleasant street (Dorchester).....	20 feet south of Savin Hill avenue to 49 feet south of Savin Hill avenue. Topeka (macadam base). Laid by Francis J. Burke.	29	130	1920
Pleasant street (Dorchester).....	84 feet north of Hancock street to Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	84	1,112	1911
Pope street (East Boston).....	At Saratoga street. Aztec asphalt. Laid by Bernudez Company.....	20	211	1919
Poplar street (city proper).....	Chambers street, across Spring street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	615	1,250	1892
Poplar street (city proper).....	Spring street to 8 feet south of Charles street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	572	1,175	1887
Porter street (city proper).....	Bridge over Boston Elevated Railway. Pine wood block. Laid by Coleman Brothers.	11	18	1913
Porter street (East Boston).....	Bridge over Boston & Albany Railroad. Acme asphalt. Laid by W. A. Murtfeldt Company.	37	128	1907
Porter street (Roxbury).....	At Anory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	8	21	1919
Powellton road (Dorchester).....	Columbia road to Glenarm street. Bitulithic. Laid by James Doherty.....	329	950	1915
Prentiss street (Roxbury).....	Each side Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	10	36	1906
Prescott street (Charlestown).....	At Harvard street. Aztec asphalt (macadam base). Laid by Bernudez Company.	15		1918
Prescott street (East Boston).....	Bridge over Boston & Albany Railroad. Acme asphalt. Laid by W. A. Murtfeldt Company.	36	125	1907
Prince street (city proper).....	Garden Court street to Hanover street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	134	223	1906
Prince street (city proper).....	9 feet west of Hanover street to 293 feet west of Hanover street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	284	634	1895
Prince street (city proper).....	293 feet west of Hanover street to 15 feet east of Salem street. Sicilian rock asphalt. Laid by Jones & Meehan.	198	457	1900

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Prince street (city proper).....	15 feet east of Salem street to Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	15	40	1901	
Prince street (West Roxbury).....	Arbway at Centre street to 1 foot north of Arborway. Topoka (macadam base). Laid by Rowe Contracting Company.	1	8	1919	Aug. 12, 1924.
Prince street (West Roxbury).....	1 foot north of Arborway to Pond street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	1,379	4,079	1915	
Providence street (city proper).....	Park square to 75 feet east of Church street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	161	1,400	1912	
Providence street (city proper).....	At east side of Church street. Bessmer brick block. Laid by Coleman Brothers.	.....	23	1918	
Providence street (city proper).....	Arlington street to 5 feet west of Arlington street. Bessmer brick block. Laid by Coleman Brothers.	5	19	1918	
Public Alley No. 12 (city proper).....	Poplar street to Public Alley No. H. Sicilian rock asphalt. Laid by Boston Asphalt Company.	77	68	1903	
Public Alley No. 402 (city proper).....	23 feet south of Marshall street to Creek square. Seyssel rock asphalt. Laid by Jones & Meehan.	182	184	1899	
Public Alley No. 301 (city proper).....	Pineknay street to River street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	270	400	1897	
Public Alley No. 401 (city proper).....	Between Huntington avenue and St. Botolph street, from 96 feet west of Irvington street to 60 feet east of Garrison street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	350	362	1899	
Public Alley No. 402 (city proper).....	Between Huntington avenue and St. Botolph street, from 67 feet west of Garrison street to 77 feet east of West Newton street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	358	374	1899	

Public Alley No. 403 (city proper).....	Between Huntington avenue and St. Botolph street, from 55 feet west of West Newton street to 62 feet east of Cumberland street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	355	370	1899
Public Alley No. 404 (Roxbury).....	Between Huntington avenue and St. Botolph street, from 66 feet south of Cumberland street to Public Alley No. 403. Trinidad asphalt. Laid by Simpson Brothers Corporation.	534	533	1899
Public Alley No. 405 (Roxbury).....	Rear of northeast side of Massachusetts avenue, from 91 feet east of Huntington avenue to 62 feet west of St. Botolph street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	100	89	1899
Public Alley No. 414 (city proper).....	Between Beacon street and Marlborough street, from 53 feet east of Massachusetts avenue to Herford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	609	569	1901
Public Alley No. 415 (city proper).....	Between Beacon street and Marlborough street, from Herford street to Gloucester street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	394	378	1901
Public Alley No. 416 (city proper).....	Between Beacon street and Marlborough street, from Gloucester street to Fairfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	520	490	1901
Public Alley No. 417 (city proper).....	Between Beacon street and Marlborough street, from Fairfield street to Exeter street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	620	579	1901
Public Alley No. 418 (city proper).....	At Dartmouth street. Bitulithic. Laid by Warren Brothers Company.....	4	4	1903
Public Alley No. 419 (city proper).....	Dartmouth street to 4 feet east of Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	4	4	1903
Public Alley No. 419 (city proper).....	Between Beacon street and Marlborough street, from 4 feet east of Dartmouth street to 12 feet west of Clarendon street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	550	488	1899
Public Alley No. 419 (city proper).....	12 feet west of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	12	11	1905
Public Alley No. 420 (city proper).....	Clarendon street to 10 feet east of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	10	9	1905

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 420 (city proper).....	Between Beacon street and Marlborough street, from 10 feet east of Clarendon street to Berkeley street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	561	498	1897	
Public Alley No. 421 (city proper).....	15 feet west of Arlington street to 3 feet west of Arlington street. Vitrified brick.	12	11		
Public Alley No. 424 (city proper).....	3 feet west of Arlington street to Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	3	1901	
Public Alley No. 422 (city proper).....	Between Commonwealth avenue and Marlborough street, from Arlington street to Berkeley street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	620	579	1902	
Public Alley No. 423 (city proper).....	Between Commonwealth avenue and Marlborough street, from Berkeley street to 3 feet east of Clarendon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	574	538	1902	
Public Alley No. 423 (city proper).....	3 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	3	1905	
Public Alley No. 424 (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	3	1905	
Public Alley No. 424 (city proper).....	Between Commonwealth avenue and Marlborough street, from 3 feet west of Clarendon street to 3 feet east of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	549	487	1902	
Public Alley No. 424 (city proper).....	3 feet east of Dartmouth street to Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	3	3	1903	
Public Alley No. 425 (city proper).....	Dartmouth street to 8 feet west of Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	8	7	1903	
Public Alley No. 425 (city proper).....	Between Commonwealth avenue and Marlborough street from 8 feet west of Dartmouth street to 9 feet east of Exeter street. Trinidad asphalt. Laid by Simpson Brothers Corporation	548	478	1899	

Public Alley No. 426 (city proper).....	Between Commonwealth avenue and Marlborough street, from Exeter street to Fairfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	620	591	• 1901
Public Alley No. 428 (city proper and Roxbury).	Between Commonwealth avenue and Marlborough street, from Gloucester street to Hereford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	392	376	1901
Public Alley No. 429 (Roxbury).....	Between Commonwealth avenue and Marlborough street, from 55 feet west of Hereford street to 77 feet east of Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	530	501	1901
Public Alley No. 429 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	4	1901
Public Alley No. 430 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	7	6	1901
Public Alley No. 431 (city proper and Roxbury).	Between Commonwealth avenue and Newbury street, from 7 feet east of Hereford street to 83 feet west of Gloucester street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	305	271	1899
Public Alley No. 433 (city proper).....	At Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	9	1919
Public Alley No. 434 (city proper).....	Exeter street to 17 feet east of Exeter street. Bitulithic (macadam base).....	17	17	1919
Public Alley No. 434 (city proper).....	Between Commonwealth avenue and Newbury street, from 17 feet east of Exeter street to 3 feet west of Dartmouth street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	535	463	1901
Public Alley No. 434 (city proper).....	3 feet west of Dartmouth street to Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	3	3	1903
Public Alley No. 435 (city proper).....	At Dartmouth street. Bitulithic. Laid by Warren Brothers Company.....	3	3	1903
Public Alley No. 435 (city proper).....	At Clarendon street. Bitulithic. Laid by Warren Brothers Company.....	4	4	1905
Public Alley No. 436 (city proper).....	Clarendon street to 15 feet east of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	15	13	1905
Public Alley No. 436 (city proper).....	Between Commonwealth avenue and Newbury street, from 15 feet east of Clarendon street to Berkeley street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	562	528	1901

June 4, 1924.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 437 (city proper).....	Between Commonwealth avenue and Newbury street, from Berkeley street to Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	628	558	1898	
Public Alley No. 438 (city proper).....	Arlington street to 3 feet west of Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	3	1901	
Public Alley No. 438 (city proper).....	Between Newbury street and Boylston street, from 3 feet west of Arlington street to 3 feet east of Berkeley street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	625	583	1901	
Public Alley No. 438 (city proper).....	3 feet east of Berkeley street to Berkeley street. Bitulithic. Laid by Warren Brothers Company.	3	3	1903	
Public Alley No. 439 (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	3	1905	
Public Alley No. 439 (city proper).....	Clarendon street to Dartmouth street. Vitrified brick .....	553	492	1894	
Public Alley No. 439 (city proper).....	At Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	1	1894	
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from Dartmouth street to 3 feet west of Dartmouth street. Bitulithic. Laid by Coleman Brothers.	3	7	1914	
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from 3 feet west of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	4	1901	
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from 8 feet west of Dartmouth street to 12 feet east of Exeter street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	535	507	1901	
Public Alley No. 440 (city proper).....	12 feet east of Exeter street to Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	11	1919	
Public Alley No. 441 (city proper).....	Exeter street to 14 feet west of Exeter street. Bitulithic. Warren Brothers Company.	14	13	1919	

Public Alley No. 441 (city proper).....	Between Newbury street and Boylston street, from 14 feet west of Exeter street to Fairfield street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	606	538	1903
Public Alley No. 442 (city proper).....	Between Newbury street and Boylston street, from 59 feet west of Fairfield street to 110 feet east of Gloucester street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	351	312	1901
Public Alley No. 442 (city proper).....	Between Newbury street and Boylston street, from 110 feet east of Gloucester street to Gloucester street. Pine wood block. Laid by Boston Asphalt Company.	100	89	1901
Public Alley No. 444 (Roxbury).....	350 feet west of Hereford street to 522 feet west of Hereford street. Concrete road. Laid by Boston Transit Commission.	182	318	1911-15
Public Alley No. 701 (city proper).....	Tremont street to 15 feet east of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	22	1920
Public Alley No. 701 (city proper).....	Between Union Park street and Upton street, from 130 feet east of Tremont street to Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	521	611	1899
Public Alley No. 702 (city proper).....	Between Shawmut avenue and Tremont street, from Worcester street to 7 feet southwest of Worcester street. Mexican asphalt (macadam base). Laid by Central Construction Company.	7	7	1919
Public Alley No. 702 (city proper).....	Between Shawmut avenue and Tremont street, from 7 feet southwest of Worcester street to West Springfield street. Seyssed rock asphalt. Laid by Jones & Meehan.	208	208	1899
Public Alley No. 703 (city proper).....	40 feet west of Newland street to 40 feet east of Public Alley No. 702. Seyssed rock asphalt. Laid by Jones & Meehan.	118	103	1899
Public Alley No. 705 (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.	11	25	1920
Public Alley No. 705 (city proper).....	Street line of Tremont street to street line of Shawmut avenue. Concrete.	649	1,262	Sept. 18, 1925.
Public Alley No. 818 (Roxbury).....	Concrete.	.....	11	.....
Public Alley No. 901 (Roxbury).....	From 113 feet west of Hemenway street to 113 feet west of Hemenway street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	573	550	1902
Public Alley No. 905 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	4	1901

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 908 (Roxbury).....	Massachusetts avenue to Marlborough street. Barrington brick block. Laid by Boston Construction Company.	552	493	1915	
Quincy street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city force.....	8	41	1918	
Quint avenue (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917	Dec. 7, 1922.
Raleigh street (Roxbury).....	At Beacon street. Aztec asphalt (macadam base). Laid by Bermudez Company.	12	27	1918	June 1, 1923.
Ralston street (South Boston).....	Each side of Dorchester avenue. Pine wood block. Laid by William J. Parry.	20	57	1919	Aug. 21, 1924.
Randall street (city proper and Rox- bury).	8 feet east of Harrison avenue to 6 feet west of Fellows street. Trinidad and Aztec asphalt. Laid by Central Construction Company.	325	724	1916	Aug. 18, 1921.
Randall street (Roxbury).....	6 feet east of Fellows street to 1 foot west of Albany street. Trinidad and Aztec asphalt. Laid by Central Construction Company.	264	765	1916	Aug. 18, 1921.
Randall street (Roxbury).....	1 foot west of Albany street to Albany street. Mexican asphalt. Laid by Bermudez Company.	1	4	1918	
Raven street (Dorchester).....	6 feet south of Crescent avenue to 444 feet south of Crescent avenue. Bitu- lithic. Laid by James Doherty.	438	1,264	1915	
Reedsdale street (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	25	1917	Dec. 7, 1922.
Richwood street (West Roxbury).....	28 feet west of Centre street to Montview street. Topeka. Laid by Central Construction Company.	1,237	2,482	1917	June 19, 1923.
Ridgewood street (Dorchester).....	Drapet street to Topliff street. Bitulithic. Laid by James Doherty.....	1,063	3,075	1915	
Rill street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	



	1946	1916	Dec. 11, 1921
Ripley road (Dorchester) .....	673	1,946	
Vassar street to Harvard street. Aztec asphalt. Laid by Central Construction Company.			
River street (city proper) .....	564	1,220	1912
Beecon street to Mt. Vernon street. Acme asphalt. Laid by Warren Brothers Company.			
Riverdale street (Brighton) .....	9	15	1920
At Western avenue. Topeka (macadam base). Laid by department forces.			
Rochester street (city proper) .....	485	1,090	1914
8 feet east of Harrison avenue to 20 feet west of Albany street. Trinidad asphalt. Laid by Central Construction Company.			
Rochester street (city proper) .....	6	13	1920
20 feet west of Albany street to 14 feet west of Albany street. Asphalt Laid by The Bermudez Company.			
Rogers street (South Boston) .....	21	28	1914
Dorchester street to 21 feet south of Dorchester street. Bitulithic. Laid by Warren Brothers Company.			
Rogers street (South Boston) .....	332	445	1891
21 feet south of Dorchester street to 12 feet north of Preble street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.			
Rose street (city proper) .....	483	1,073	1917
8 feet east of Harrison avenue to 13 feet west of Albany street. Mexican asphalt (macadam base). Laid by Central Construction Company.			
Rosedale street (Dorchester) .....	10	32	1913
At Washington street. Pine wood block. Laid by William J. Barry .....			
Rosemary street (West Roxbury) .....	3	11	1918
At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.			
Rosewood street (Dorchester) .....	1,524	4,417	1916
Oakland street to Randolph road. Trinidad asphalt. Laid by John Kelly Company.			
Roslin street (Dorchester) .....	10	45	1918
At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.			
Rowell street (Dorchester) .....	10	39	1911
At Hancock street. Mack brick block. Laid by Central Construction Company.			
Roxbury Street (Roxbury) .....	170	895	1904
Washington street to Guildrow. Trinidad asphalt. Laid by Barber Asphalt Paving Company.			
Roxbury street (Roxbury) .....	557	2,160	1904
Shawmut avenue, across Kent street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.			
Rugby road (Dorchester) .....	552	1,333	1917
Oakland street to Randolph road. Mexican asphalt. Laid by Central Construction Company.			
			July 28, 1922.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Ruggles street (Roxbury).....	Washington street to Shawmut avenue. Pinewood block. Laid by Boston Paving Company.	455	1,277	1913	
Ruggles street (Roxbury).....	7 feet west of Shawmut avenue to Cabot street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1,048	3,062	1907	
Ruggles street (Roxbury).....	Each side of Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	7	35	1906	
Ruggles street (Roxbury).....	Cabot street to Tremont street. Mack brick block. Laid by J. E. Burns & Co.	460	1,874	1909	
Rutland square (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	56	1906-07	
Rutland square (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	15	61	1920	Sept. 18, 1925.
Rutland street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	14	56	1920	Sept. 18, 1925.
Ryan street (city proper).....	Mystic street to Harrison avenue. Stedman rock asphalt. Laid by Boston Asphalt Company.	375	585	1896	
St. Alphonsus street (Roxbury).....	Each side of Conant street. Aztec asphalt (macadam base). Laid by Central Construction Company.	14	36	1919	Nov. 1, 1924.
St. Alphonsus street (Roxbury).....	9 feet north of Tremont street, across Smith street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	512	1,479	1905	
St. Andrew road (East Boston).....	At Waupello road. Aztec asphalt. Laid by James Doherty.....	8	27	1919	June 27, 1924.
St. Botolph street (city proper).....	9 feet east of West Newton street to West Newton street. Bitulithic. Laid by Central Construction Company.	9	36	1917	
St. Botolph street (city proper).....	West Newton street to 9 feet west of West Newton street. Bitulithic. Laid by Central Construction Company.	9	36	1917	

St. Botolph street (Roxbury).....	Each side of Massachusetts avenue. Bitulithic. Laid by Warren Brothers Company.	8	32	1903
St. Cecilia street (Roxbury).....	At Belvidere street. Bitulithic. Laid by Warren Brothers Company.....	1	3	1902
St. Charles street (city proper).....	At Chandler street. Acme asphalt (macadam base). Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.....	3 {	8 2	1916 1916
St. Francis de Sales street (Roxbury)...	Cabot street to Roxbury street. Bitulithic. Laid by James Doherty.....	452	746	1914
St. Germain street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	10	1901
St. James avenue (city proper).....	8 feet west of Clarendon street to Huntington avenue. Bitulithic. Laid by Boston Elevated Railway Company.	543	1,576	1911
St. James avenue (city proper).....	At Huntington avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	17	1901
St. James avenue (city proper).....	At Huntington avenue. Bitulithic. Laid by James Doherty.....	.....	590	1912
St. Joseph street (West Roxbury).....	At South street. Bitulithic. Laid by Warren Brothers Company.....	2	5	1913
St. Lukes road (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917
St. Lukes road (Brighton).....	24 feet north of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	24	62	1917
St. Paul street (Roxbury).....	Falmouth street to Norway street. Pine wood block. Laid by United States Wood Preserving Company.	269	777	1909
St. Rose street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	22	1918
St. Stephen street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	9	1901
St. William street (Dorchester).....	Dorchester avenue to 8 feet east of Dorchester avenue. Pine wood block. Laid by William J. Barry.	8	26	1919
St. William street (Dorchester).....	8 feet east of Dorchester avenue to Auckland street. Trinidad asphalt. Laid by J. J. Sullivan.	317	923	1915

Oct. 28, 1921.  
Oct. 28, 1921.

Dec. 7, 1922.

Sept. 28, 1923.

Aug. 21, 1924.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Salem street (city proper).....	Endicott street to 6 feet south of Cross street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	172	328	1901	
Salem street (city proper).....	6 feet north of Cross street to 5 feet north of south side of Baldwin place. Sicilian rock asphalt. Laid by Boston Asphalt Company.	700	1,384	1901	
Salem street (city proper).....	5 feet north of south side of Baldwin place to 64 feet north of Baldwin place. Bituthite. Laid by Warren Brothers Company.	74	150	1913	
Salem street (city proper).....	64 feet north of Baldwin place to 1 foot north of Prince street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	117	262	1901	
Salutation street (city proper).....	Hanover street to Commercial street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	340	253	1905	
Santuit street (Dorchester).....	Roseland street to Welles avenue. Topeka. Laid by city force. ....	386	946	1917	
Saratoga street (East Boston).....	73 feet west of Chelsea street to Chelsea street. Aztec asphalt (macadam base). Laid by Bernudez Company.	73	778	1919	May 1 1924.
Salcombe street (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by department forces.	10	31	1920	
Saratoga street (East Boston).....	Chelsea street to 120 feet west of Byron street. Aztec asphalt. Laid by Bernudez Company.	2,881	1,105	1919	May 1, 1924.
Saratoga street (East Boston).....	120 feet west of Byron street to Bennington street. Standard asphalt. Laid by Bernudez Company.	2,994	14,535	1918	May 1, 1924.
Saratoga street (East Boston).....	Bridge over Boston, Revere Beach & Lynn Railroad. Mack brick. ....	89	321	1913	
Saratoga street (East Boston).....	At Waupello road. Aztec asphalt (macadam base). Laid by James Doherty.	.....	45	1919	June 27, 1924.
Saratoga street (East Boston).....	West side bridge over Belle Isle inlet to Winthrop line. Metropolitan brick block. Laid by Lawler Brothers.	100	378	1914	

Sarsfield street (Roxbury).....	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Com- pany.	18	40	1906-07	
Saunders street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company,	10	31	1918	Dec. 24, 1923.
Saunders street (Brighton).....	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.....	12	37	1919	Sept. 4, 1924.
Saville street (West Roxbury).....	Stratford street to Park street. Mexican asphalt. Laid by Central Con- struction Company.	314	740	1917	Sept. 30, 1922.
Savin Hill avenue (Dorchester).....	At Pleasant street. Topeka. Laid by Francis J. Burke.....	.....	26	1920	Dec. 18, 1925.
Sawyer avenue (Dorchester).....	At Pleasant street. Topeka. Laid by Francis J. Burke.....	12	51	1920	Dec. 18, 1925.
Schiller street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	25	1910	
School street (Roxbury).....	51 feet east of Amory street to Amory street. Mexican asphalt. Laid by Central Construction Company.	54	250	1919	Dec. 6, 1924.
School street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	28	1913	
Sears street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Com- pany.	1	6	1916	
Seaver street (Roxbury).....	Walnut avenue to Blue Hill avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	4,093	15,760	1917	Sept. 17, 1922.
Seaverns avenue (West Roxbury)....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	4	28	1913	
Selgwick street (West Roxbury).....	At South street. Bitulithic. Laid by Warren Brothers Company.....	2	6	1913	
Selwyn street (West Roxbury).....	423 feet north of Ardale street to 10 feet south of Farquhar street. Texro asphalt. Laid by McGuire & McGourty.	1,200	3,559	1919	Aug. 20, 1924.
Selwyn street (West Roxbury).....	10 feet south of Farquhar street to Farquhar street. Topeka. Laid by Marino DeMatteo.	10	30	1920	Nov. 11, 1925.
Seneca street (city proper).....	4 feet east of Harrison avenue to 8 feet west of Albany street. Mack brick block. Laid by Paving Service.	503	829	1910	
Shawmut avenue (city proper).....	132 feet south of Castle street, across Cherry street. Trinidad asphalt. Laid by Central Construction Company.	327	956	1915	

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Shawmut street (city proper).....	At Broadway. Pine wood block. Laid by Coleman Brothers.....	9	27	1913	
Sheffield road (West Roxbury).....	At Selwyn street. Texro asphalt. Laid by McGuire & McGourty.....	7	22	1919	Aug. 8, 1924.
Shelley street (East Boston).....	At Saratoga street. Aztec asphalt (macadam base). Laid by Bernudez Company.	.....	1	1919	May 1, 1924.
Sherburn street (Roxbury).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore....	23	101	1915	
Sheridan street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	9	28	1920	Dec. 22, 1925.
Sidlaw road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	60	263	1918	May 21, 1923.
Silver street (South Boston).....	From A street to bridge over New England Railroad. Bitulithic. Laid by Warren Brothers Company.	332	490	1903	
Silver street (South Boston).....	Bridge over New England Railroad. Pine wood block. Laid by Central Construction Company.	61	92	1918	
Silver street (South Boston).....	50 feet west of B street to 10 feet west of B street. Bitulithic. Laid by Warren Brothers Company.	40	59	1903	
Silver street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Jones & Meehan.....	512	740	1901	
Silver street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	510	737	1901	
Silver street (South Boston).....	225 feet west of E street to E street. Bitulithic. Laid by Warren Brothers Company.	225	325	1903	
Silver street (South Boston).....	5 feet west of Dorchester street to Dorchester street. Bitulithic. Laid by Warren Brothers Company.	5	8	1905	
Silver street (South Boston).....	Dorchester street to 4 feet east of Dorchester street. Bitulithic. Laid by Warren Brothers Company.	4	6	1905	

Simmons street (Roxbury).....	Vernon street to Linden Park street. Mack brick block. Laid by John E. Burns & Co.	645	1,434	1919	
Smith street (Roxbury).....	Parker street to 6 feet north of Phillips street. Aztec asphalt (macadam base). Laid by Bermudez Company.	607	1,755	1919	Oct. 24, 1924.
Smith street (Roxbury).....	6 feet north of Phillips street to St. Alphonsus street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	576	1,664	1917	
Smith street (Roxbury).....	St. Alphonsus street to Huntington avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	582	1,690	1919	Nov. 8, 1924.
South street (West Roxbury).....	Centre street to 12 feet north of Jamaica street. Bitulithic. Laid by Warren Brothers Company.	1,265 {	4,417	1913	
	Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.		290	1913	
South street (West Roxbury).....	12 feet north of Jamaica street to north side Keyes street (east side). Bitulithic. Laid by Warren Brothers Company.		200	1913	
	Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.		10	1913	
South street (West Roxbury).....	North side of Keyes street to 25 feet north of Boynton street (east side). Aztec asphalt (macadam base). Laid by Bermudez Company.		267	1918	Sept. 28, 1923.
South street (West Roxbury).....	25 feet north of Boynton street to north side of Arborway. Aztec asphalt (macadam base). Laid by Bermudez Company.	1,331	3,520	1918	Sept. 28, 1923.
South street (West Roxbury).....	120 feet west of Guernsey street to Centre street. Topeka. Laid by Rowe Contracting Company.	11	54	1920	Unfinished.
	Asphalt (macadam base). Laid by The Bermudez Company.....	265	1,113	1920	Unfinished.
South street (Brighton).....	Chestnut Hill avenue to 13 feet east of Commonwealth avenue. Aztec asphalt. Laid by Coleman Brothers.	600	1,504	1917	Nov. 17, 1922.
South street (Brighton).....	13 feet east of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	13	54	1918	May 21, 1923.
Southern avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	42	1913	
Southern avenue (Dorchester).....	Each side of Talbot avenue. Mack brick block. Laid by James Doherty..	30	193	1911	
South Huntington avenue (West Roxbury.)	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	12	68	1920	Dec. 22, 1925.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
South Margin street (city proper).....	2 feet east of Norman street to 7 feet east of Stanford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	187	380	1905	
Southwick street (Dorchester).....	Neponset avenue to Ereport street. Mexican asphalt. Laid by Central Construction Company.	350	1,022	1918	Mar. 29, 1923.
Sparhawk street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	17	58	1919	Sept. 4, 1924.
Spaulding street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bernudez Company.	3	11	1918	Sept. 28, 1923
Spear place (city proper).....	At Pleasant street. Pine wood block. Laid by Coleman Brothers.....	10	9	1913	
Spencer street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	12	61	1911	
Spofford road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	20	47	1917	
Spring street (city proper).....	Allen street to 3 feet north of Allen street. Mexican asphalt. Laid by Central Construction Company.	3	7	1917	
Spring street (city proper).....	3 feet north of Allen street to Poplar street. Bitulithic. Laid by Warren Brothers Company.	202	400	1913	
Spring street (city proper).....	Poplar street to Chambers street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	212	425	1895	
Spring street (city proper).....	Chambers street to Leverett street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	216	444	1895	
Spruce street (city proper).....	Beacon street to 11 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	11	14	1917	Nov. 15, 1922.
Stanhope street (city proper).....	At Trinity place. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	15	1907	



Stanton street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	9	54	1914
State street (city proper).....	Washington street to east side of Old State House. Pine wood block. Laid by James Doherty.....	115	561	1908
Station street (Roxbury).....	Pine wood block. Laid by Bernard E. Grant.....	11	32	1916 Dec. 14, 1921.
Station street (Roxbury).....	7 feet south of Parker street to Parker street. Aztec asphalt. Laid by Bernandez Company.	7	23	1919 Oct. 25, 1924.
Station street (Roxbury).....	Columbus avenue to 7 feet south of Parker street. Bitulithic. Laid by John F. Beatty.	611	1,761	1914
Sterling street (Roxbury).....	Washington street to Shawmut avenue. Topeka. Laid by Central Con- struction Company.	197	1,436	1919 June 23, 1924.
Sterling street (Roxbury).....	Shawmut avenue to Westminster street. Topeka. Laid by Central Con- struction Company.	431	1,630	1919 June 23, 1924.
Sterling street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Con- struction Company.	369	1,398	1919 June 23, 1924.
Sterling street (Roxbury).....	Warwick street to Cabot street. Topeka. Laid by Central Construction Company.	165	554	1919 June 23, 1924.
Sterling street (Roxbury).....	Cabot street to Tremont street. Topeka. Laid by Central Construction Company.	257	740	1919 June 23, 1924.
Stevens street (city proper).....	Lincoln place, toward Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	16	22	1897
Stillman street (city proper).....	Endicott street to North Margin street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	135	368	1892
Stillman street (city proper).....	North Margin street intersection. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	30	70	1895
Stillman street (city proper).....	At Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	8	7	1901
Stoddard street (city proper).....	6 feet north of Howard street to 8 feet south of Court street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	121	135	1892
Stoughton street (city proper).....	At Albany street. Pine wood block. Laid by Bernard E. Grant.....	12	45	1917 Jan. 19, 1923.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Stoughton street (Dorchester).....	103 feet east of Columbia road to 14 feet west of Pleasant street. Topeka (macadam base). Laid by department forces.	1,423	3,511	1920	
Stoughton street (Dorchester).....	14 feet west of Pleasant street to Pleasant street. Topeka. Laid by department forces.	14	731	1920	
Strathmore road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	45	150	1918	May 21, 1923.
Stuart street (city proper).....	Clarendon street to Trinity place. Bitulthie. Laid by Warren Brothers Company.	268	1,200	1920	Oct. 25, 1925.
Stuart street (city proper).....	At Dartmouth street and at Trinity place. Bitulthie. Laid by James Doherty.	6	26	1912	
Summer street (city proper).....	At Washington street. Mack brick block. Laid by Northern Construction Company.	.....	38	1915	
Summer street (city proper).....	Washington street to west side of South street. Pine wood block. Laid by Northern Construction Company.	1,229	5,668	1915	
Summer street (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by department forces.	3	13	1920	
Summer street (East Boston).....	Bridge over Boston & Albany Railroad. Limer rock asphalt. Laid by W. A. Murtfeldt Company.	38	187	1908	
Sun Court street (city proper).....	7 feet north of North street to Moon street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	144	211	1891	
Sussex street (Roxbury).....	Hammond street to Warwick street. Topeka. Laid by Central Construction Company.	255	546	1919	June 16, 1924.
Swift street (East Boston).....	At Saratoga street. Aztec asphalt. Laid by Bernudez Company.....	8	36	1919	May 1, 1924.
Taft street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	43	108	1920	Sept. 22, 1925.

			30	1917	May 30, 1922.
Talbot avenue (Dorchester).	At Lithgow street. Mexican asphalt. Laid by Central Construction Company.				
Talbot avenue (Dorchester).	65 feet east of Washington street to Washington street. Pine wood block. Laid by William J. Barry.	66	571	1913	
Talbot avenue (Dorchester).	215 feet west of Norfolk street to 58 feet east of Blue Hill avenue. Mac brick block. Laid by James Doherty.	4,300	21,325	1911	
Tamworth street (city proper).	Boxkton street to 9 feet south of Boylston street. Pine wood block. Laid by Warren Brothers Company.	9	14	1917	Aug. 15, 1922.
Tamworth street (city proper).	7 feet north of La Grange street to La Grange street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	12	1897	
Taylor street (city proper).	Dwight street to Milford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	184	257	1896	
Tebroe street (Dorchester).	Bowdoin street to Levant street. Aztec asphalt. Laid by McGuire & Mc forty.	211	616	1919	Nov. 19, 1924.
Temple place (city proper).	Washington street to 35 feet west of Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	95	318	1906	
Temple place (city proper).	95 feet west of Washington street to 22 feet east of Tremont street. Trinidad land asphalt. Laid by United States Paving Company.	386	1,229	1900	
Temple place (city proper).	22 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	22	74	1915	
Temple street (West Roxbury).	Spring street to Ivory street. Mexican asphalt. Laid by Central Construction Company.	1,089	3,169	1917	June 25, 1922.
Templeton street (Dorchester).	At Florida street. Topeka (macadam base). Laid by city forces.	44	125	1919	
Tennison street (city proper).	At Broadway. Pine wood block. Laid by Coleman Brothers.	10	30	1913	
Terry street (Roxbury).	At Columbus avenue. Bernu-lez asphalt. Laid by Boston Asphalt Company.	9	28	1906	
Tellow street (Roxbury).	At Worthington street. Trinidad asphalt. Laid by Central Construction Company.	4	11	1915	Jan. 15, 1921.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Thacher street (city proper).....	12 feet east of Washington Street North to 5 feet east of Endicott street. Mexican asphalt. Laid by Central Construction Company.	187	512	1917	
Thacher street (city proper).....	5 feet east of Endicott street to Endicott street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	15	1899	
Theodore street (Dorchester).....	10 feet northeast of Morton street, across Middleton street. Mexican asphalt. Laid by Central Construction Company.	612	1,762	1917	July 26, 1922.
Thetford avenue (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	9	44	1914	
Thomas park (South Boston).....	Around Telegraph Hill. Bitulithic. Laid by Warren Brothers Company..	2,056	7,012	1905	
Thomas street (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	7	1913	
Thornley street (Dorchester).....	At Pleasant street. Topeka. Laid by Francis J. Burke.....	11	38	1920	Dec. 18, 1925.
Ticknor street (South Boston).....	Columbia road to Marine road. Mexican asphalt. Laid by Central Con- struction Company.	368	1,033	1919	April 30, 1924.
Tileston street (city proper).....	9 feet north of Hanover street, across Unity street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	403	514	1905	
Tileston street (city proper).....	Unity street to 6 feet south of Salem street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	157	119	1895	
Tonawanda street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	9	46	1920	
Topliff street (Dorchester).....	At Bowdoin street. Aztec asphalt (macadam base). Laid by Bernudez Company.	15	44	1919	May 9, 1924.
Topliff street (Dorchester).....	At Levant street. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	.....	45	1919	Nov. 24, 1924.
Topliff street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	2	10	1920	

				1918	Sept. 25, 1923.
Torrey street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	33	1918	
Tovar street (Dorchester).....	Boylston street to Cameron street. Aztec asphalt.	200	576	1919	Nov. 17, 1924
Treadway street (Dorchester).....	Savin Hill avenue to 67 feet north of Doris street. Aztec asphalt. Laid by Central Construction Company.	337	1,261	1916	Nov. 17, 1921.
Trenblett street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	32	1913	
Trenmont street (city proper).....	Seclay square to 19 feet north of Boylston street (except next two items). Pine wood block. Laid by Coleman Brothers.	2,831	9,557	1915	
Trenmont street (city proper).....	29 feet north of Winter street, across Temple place (west side). Pine wood block. Laid by United States Wood Preserving Company.	.....	685	1900	
Trenmont street (city proper).....	(West side.) Park street to Boylston street. Pine wood block. Laid by James Doherty.	.....	1,958	1920	Oct. 16, 1925.
Trenmont street (city proper).....	19 feet north of Boylston street to 8 feet north of Eliot st. Pine wood block. Laid by Bernard E. Grant.	453	2,046	1917	Nov. 15, 1922.
Trenmont street (city proper).....	8 feet south of Eliot street to 21 feet south of the north side of Common street. Pine wood block. Laid by Bernard E. Grant.	424	1,881	1917	Nov. 15, 1922.
Trenmont street (city proper).....	Bridlee over Boston & Albany Railroad. Standard asphalt. Laid by Boston & Albany Railroad Company. ....	65 {	190 128	1912 1912	
Trenmont street (city proper).....	Portland stone brick. Laid by Boston & Albany Railroad Company. ....	.....	.....	.....	
Trenmont street (city proper).....	See Arlington square.	.....	.....	.....	
Trenmont street (city proper).....	New York, New Haven & Hartford Railroad Bridge to 2 feet north of Dover street. Topeka. Laid by Rowe Contracting Company.	831	4,088	1919	May 31, 1924.
Trenmont street (city proper).....	2 feet north of Dover street to 9 feet south of north side of Northampton street. (Not including next item). Asphalt. Laid by B. E. Grant Company.	3,726	22,201	1920	Sept. 18, 1925.
Trenmont street (city proper).....	(West side.) North side of Waltham street to 20 feet south of North side of Clarendon street. Unionite. Laid by B. E. Grant Company.	110	423	1920	Sept. 18, 1925.
Trenmont street (Roxbury).....	St. Alphonsus street to Phillips street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	587	1,854	1902	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Tremont street (Brighton).....	(West side.) At Washington street. Bitulithic. (macadam base Laid by Warren Brothers Company.	.....	22	1920	July 8, 1925.
Trenu street (Dorchester).....	Clarkson street to 6 feet north of Coleman street. Trinidad asphalt. Laid by William J. Kafferty & Co.	222	498	1915	
Trescott street (Dorchester).....	Pleasant street to 16 feet west of Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	16	48	1920	Sept. 22, 1925.
Trescott street (Dorchester).....	16 feet west of Pleasant street to 7 feet east of Bakersfield street. Bitulithic. Laid by James Doherty.	383	1,107	1914	
Trinity place (city proper).....	Huntington avenue to St. James avenue. Bitulithic. Laid by James Doherty.	124	346	1912	
Trinity place (city proper).....	St. James avenue, across Stuart street. Bitulithic. Laid by James Doherty. Bitulithic. Laid by Warren Brothers Company.	384	1,373 171	1912 1920	Oct. 25, 1925.
Trinity place (city proper).....	Stuart street to 5 feet south of Stuart street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	7	1899	
Trinity place (city proper).....	5 feet south of Stuart street, across Stanhope street. Trinidad asphalt. (East side.) Laid by Barber Asphalt Paving Company. .... } 262 { (West side.) Laid by Barber Asphalt Paving Company. .... }		402 321	1907 1900	
Trull street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	
Tuckerman street (South Boston).....	Dorchester street to Middle street. Aztec asphalt. Laid by Central Construction Company.	367	764	1916	Sept. 11, 1921.
Tudor street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan. ....	506	731	1901	
Tudor street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company. ....	4	6	1905	
Tufts street (city proper).....	8 feet west of South street to 7 feet east of Lincoln street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	212	473	1901	

Tufts street (city proper).....	8 feet west of Lincoln street to 13 feet east of Kingston street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	239	527	1901	
Tufts street (city proper).....	13 feet east of Kingston street to Kingston street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	13	33	1910	
Tufts street (Charlestown).....	Bunker Hill street to 141 feet north of Bunker Hill street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	141	415	1897	
Turner street (Brighton).....	Washington street to 2 feet north of Washington street. Bitulithic. Laid by Warren Brothers Company.	2	6	1919	July 8, 1923.
Turner street (Brighton).....	10 feet north of Washington street to Faneuil street. Aztec asphalt. Laid by Coleman Brothers.	1,244	2,898	1917	Sept. 17, 1922.
Tyler street (city proper).....	6 feet south of Beach street to 8 feet north of Kneeland street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	306	815	1917	
Tyler street (city proper).....	Kneeland street to Harvard street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	319	850	1917	
Tyler street (city proper).....	Harvard street to Oak street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	518	1,381	1901	
Tyler street (city proper).....	7 feet south of Oak street to 6 feet north of Curve street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	428	1,152	1917	
Union avenue (West Roxbury).....	At Green street. Tepeka. Laid by Central Construction Company.....	6	18	1919	Dec. 6, 1924.
Union Park (city proper).....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	60	1920	Sept. 18, 1925.
Union Park (city proper).....	Tremont street to 15 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	62	1920	Sept. 18, 1925.
Union Park (city proper).....	15 feet west of Tremont street to Montgomery street. Asphalt (macadam base). Laid by B. E. Grant Company.	87	326	1920	Sept. 18, 1925.
Union Park street (city proper).....	Washington street to Harrison avenue. Acme asphalt. Laid by the Bernudez Company.	461	2,401	1920	
Unity street (city proper).....	Charter street to Tileston street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	330	500	1897	

## List of Streets Having a Smooth Pavement—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Upham avenue (Dorchester).....	At Wilbur street, Topeka (macadam base). Laid by Central Construction Company.	.....	32	1920	Oct. 25, 1925.
Upham avenue (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	30	1911	
Upland avenue (Dorchester).....	Park street to Melville avenue. Aztec asphalt. Laid by Central Construction Company.	748	2,509	1916	Nov. 28, 1921.
Upton street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	16	50	1920	Sept. 18, 1925.
Utica street (city proper).....	At Tufts street. Siolian rock asphalt. Laid by Boston Asphalt Company,	3	5	1901	
Vernon street (Roxbury).....	Tremont street to Cabot street. Mack brick block. Laid by J. E. Burns & Co.	798	2,307	1909	
Vernon street (Roxbury).....	80 feet east of Cabot street to 7 feet east of Auburn street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	694	1,788	1907	
Vernon street (Roxbury).....	Shawmut avenue to Washington street. Pine wood block. Laid by Boston Paving Company.	281	814	1913	
Victoria street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	33	1919	Aug. 21, 1924.
Victoria street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	17	52	1920	Sept. 22, 1925.
Victory road (Dorchester).....	At Neponset avenue. Topeka (macadam base). Laid by city forces.....	7	23	1918	
Vine street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	7	20	1910	
Vine street (Charlestown).....	Bunker Hill street, across Moulton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	165	670	1897	
Vinson street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by Department forces,	1	6	1920	



Wachusett street (West Roxbury).....	Walk Hill street to 24 feet east of Patten street. Topeka. Laid by John Kelly Company.	191	524	1919	Dec. 15, 1924.
Wachusett street (West Roxbury).....	24 feet east of Patten street to 23 feet west of Patten street. Topeka. Laid by John Kelly Company.	71	194	1919	Dec. 15, 1924.
Wachusett street (West Roxbury).....	23 feet west of Patten street to Eldridge road. Topeka. Laid by John Kelly Company.	670	1,967	1919	Dec. 15, 1924.
Walden street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	18	1910	
Waldo terrace (Brighton).....	Washington street to 1 foot north of Washington street. Bituthie. Laid by Warren Brothers Company.	1	2	1913	
Waldo terrace (Brighton).....	1 foot north of Washington street to Henshaw street. Aztec asphalt. Laid by Coleman Brothers.	291	406	1917	Oct. 16, 1922.
Wales street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	15	82	1911	
Walk Hill street (Dorchester).....	West side Fottler road to Blue Hill avenue. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	710	3,236	1919	June 28, 1924.
Walnut avenue (Roxbury and West Roxbury).....	29 feet north of Columbus avenue to 13 feet south of Columbus avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	68	214	1917	Sept. 17, 1922.
Walnut street (city proper).....	Beacon street to 12 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	12	21	1917	Nov. 15, 1922.
Walpole street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	18	46	1906-07	
Waltham street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	18	69	1920	Sept. 18, 1925.
Walton street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	30	1918	Sept. 25, 1923.
Warren avenue (city proper).....	Berkeley street to 4 feet west of Berkeley street. Bituthie. Laid by Warren Brothers Company.	4	25	1906	
Warren avenue (city proper).....	4 feet west of Berkeley street to 4 feet east of Penbroke street. Pine wood block. Laid by Boston Paving Company.	2,046	12,217	1913	
Warren street (Roxbury).....	At Washington street. Pine wood block. Laid by James Doherty.....	10	73	1911	

## List of Streets Having a Smooth Pavement—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Warren street (Roxbury).....	At Dudley street. Pine wood block. Laid by James Doherty.....	23	216	1912	
Warren street (Charlestown).....	Winthrop street, across Soley street. Mexican asphalt. Laid by Central Construction Company.	128	302	1917	
Warren street (Brighton).....	Cambridge street to 176 feet east of Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	176	1,245	1919	Sept. 4, 1924.
Warrenton street (city proper).....	8 feet south of Eliot street to 392 feet south of Eliot street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	384	1,045	1891	
Warrenton street (city proper).....	392 feet south of Eliot street to 10 feet north of Tremont street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	269	630	1884	
Warrenton street (city proper).....	13 feet south of Shawmut avenue to Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	464	928	1891	
Warwick street (Roxbury).....	Hammond street to Ruggles street. Topeka. Laid by Central Construction Company.	1,369	3,961	1919	June 24, 1924.
Washington street (Charlestown).....	At Harvard street. Aztec asphalt (macadam base). Laid by Bernard & Company.	8	18	1918	June 8, 1923.
Washington Street North (Charlestown)	Bridge over Boston & Maine Railroad, Fitchburg Division. Trinidad asphalt. Laid by Simpson Brothers Corporation.	61	513	1899	
Washington street (city proper).....	8 feet south of Cornhill to 78 feet south of Court avenue. Pine wood block. Laid by James Doherty.	509	1,475	1908	
Washington street (city proper).....	78 feet south of Court avenue to 5 feet south of Milk street. Black gum wood block. Laid by United States Wood Preserving Company. Pine wood block. Laid by Bernard E. Grant.	538	218 1,642	1907 1917	Nov. 4, 1922.
Washington street (city proper).....	5 feet south of Milk street to 57 feet north of Essex street. Black gum wood block. Laid by United States Wood Preserving Company. Pine wood block. Laid by Bernard E. Grant.	1,923	1,341 6,449	1906 1917	Nov. 4, 1922.

Washington street (city proper).....	57 feet north of Essex street to 54 feet south of Boylston street. Pine wood block. Laid by Bernard E. Grant.	213	300	1917	Nov. 4, 1922.
Washington street (city proper).....	54 feet south of Boylston street to 8 feet north of Beach street. Pine wood block. Laid by Bernard E. Grant.	132	501	1917	Nov. 4, 1922.
Washington street (city proper).....	8 feet north of Beach street to Eliot street. Pine wood block. Laid by James Doherty.	216	800	1920	Dec. 3, 1923.
Washington street (city proper).....	At Pleasant street. Pine wood block. Laid by Coleman Brothers.....	.....	20	1913	
Washington street (city proper).....	Bridge over Boston & Albany Railroad. Metropolitan brick. Laid by W. A. Murtfeldt Company.	60	216	1908	
Washington street (Roxbury).....	Williams street to 27 feet north of Marvin street. Pine wood block. Laid by James Doherty.	1,026	4,779	1911	
Washington street (Roxbury).....	27 feet north of Marvin street, across Zeigler street (west side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	210	1901	
Washington street (Roxbury).....	Zeigler street to 20 feet north of Dudley street. Pine wood block. Laid by James Doherty.	186	745	1911	
Washington street (Roxbury).....	20 feet north of Dudley street to Dudley street. Pine wood block. Laid by James Doherty.	20	105	1912	
Washington street (Roxbury).....	Dudley street to 130 feet south of Dudley street. Pine wood block. Laid by James Doherty.	130	930	1912	
Washington street (West Roxbury).....	La Grange street southerly. Topeka (macadam base). East roadway. Maintained by Massachusetts Highway Commission. West roadway. Maintained by Massachusetts Highway Commission.....	1,559	9,624 5,491	1916 1916	
Washington street (West Roxbury).....	29 feet south of Grove street to 529 feet south of Grove street (east roadway). Concrete road. Maintained by Massachusetts Highway Commission.	500	1,055	1916	
Washington street (Roxbury and Dorchester).....	Blue Hill avenue to 16 feet south of Fenelon street, and from Eldon street to 42 feet south of Bowdoin street. Pine wood block. Laid by William J. Barry.	4,010	18,023	1912-13	
Washington street (Dorchester).....	42 feet south of Bowdoin street, across Talbot avenue. Pine wood block. Laid by William J. Barry.	3,440	16,402	1913	
Washington street (Dorchester).....	55 feet south of Talbot avenue to north side of Ashmont street. Topeka (macadam base). Laid by Warren Brothers Company.	1,685	5,012	1918	Sept. 25, 1923.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Washington street (Dorchester).....	North side of Ashmont street to 85 feet north of Armandine street (west side). Topeka (macadam base). Laid by Warren Brothers Company.	.....	314	1918	Sept. 25, 1923.
Washington street (Dorchester).....	85 feet north of Armandine street to 12 feet south of Armandine street. Topeka (macadam base). Laid by Warren Brothers Company.	123	325	1918	Sept. 25, 1923.
Washington street (Brighton).....	Cambridge street to 118 feet west of Chestnut Hill avenue. Bitulithic. Laid by Warren Brothers Company.	1,020	5,007	1913	
	Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.		217	1913	
Washington street (Brighton).....	118 feet west of Chestnut Hill avenue to 22 feet east of Oakland street. Bitulithic (macadam base). Laid by Warren Brothers Company.	1,022	3,914	1919-20	July 8, 1925.
Washington street (Brighton) (north side).....	22 feet east of Oakland street to 33 feet west of Lake street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	1,529	1920	July 8, 1925.
Washington street (Brighton).....	33 feet west of Lake street to 28 feet west of Tremont street. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,318	8,678	1919-20	July 8, 1925.
Water street (city proper).....	2 feet west of Devonshire street to Devonshire street. Pine wood block. Laid by Bernard E. Grant.	2	6	1916	Dec. 14, 1921.
Water street (city proper).....	Devonshire street to 7 feet east of Devonshire street. Pine wood block. Laid by Bernard E. Grant.	7	33	1916	Dec. 14, 1921.
Water street (city proper).....	7 feet east of Devonshire street to 8 feet west of Congress street. Black gun wood block. Laid by United States Wood Preserving Company.	198	885	1907	
Water street (city proper).....	7 feet east of Congress street to 8 feet west of Kilby street. Residual asphalt. Laid by Central Construction Company.	241	666	1915	
Water street (city proper).....	8 feet west of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	8	24	1919	Oct. 10, 1924.
Water street (city proper).....	Liberty square to 35 feet east of Liberty square. Pine wood block. Laid by James Doherty.	35	115	1919	Oct. 10, 1924.

Water street (city proper).....	35 feet east of Liberty square to 49 feet east of Liberty square. Aztec asphalt. Laid by James Doherty.	14	36	1919	
Water street (city proper).....	49 feet east of Liberty square to 8 feet west of Broad street. Residual asphalt. Laid by Central Construction Company.	195	509	1915	
Waterford street (city proper).....	8 feet west of Washington street to 1 foot east of Shawmut avenue. Seyssel rock asphalt. Laid by Jones & Neenan.	307	529	1897	
Wauppello road (East Boston).....	Saratoga street to Bayswater street. Aztec asphalt. Laid by James Doherty.	416	1,224	1919	June 27, 1924.
Weld street (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by the Bermudez Company.	50	137	1920	Unfinished.
Welles avenue (Dorchester).....	At Washington street. Topoka (macadam base). Laid by Warren Brothers Company.	50	200	1918	Sept. 25, 1923.
Wellington street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
Wensley street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	53	1910	
Wentworth street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
West street (city proper).....	Washington street to 8 feet west of Washington street. Mack brick block..	8	20	1908	
West street (city proper).....	8 feet west of Washington street to 22 feet east of Tremont street. Black gunwood block. Laid by United States Wood Preserving Company.	463	1,126	1908	
West street (city proper).....	22 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	22	64	1915	
West Broadway (South Boston).....	209 feet east of Dorchester avenue to 8 feet west of A street. Sicilian rock asphalt. Laid by Boston Asphalt Company.....	318 {	666 612	1892 1917	Oct. 18, 1922.
West Broadway (South Boston).....	8 feet west of A street to west side bridge over New England Division, New York, New Haven & Hartford Railroad. Acme asphalt. Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.....	378 {	1,215 192	1917 1917	Oct. 18, 1922. Oct. 18, 1922.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
West Broadway (South Boston).....	36 feet east of bridge over New England Division, New York, New Haven & Hartford Railroad to 148 feet west of F street. Acme asphalt. Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.....	2,153 {	7,438 857	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
West Broadway (South Boston).....	148 feet west of F street to 267 feet east of F street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	446	1,537	1897	
West Broadway (South Boston).....	267 feet east of F street to 28 feet west of Dorchester street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	410	1,246	1898	
West Broadway (South Boston).....	28 feet west of Dorchester street (south) to west side of Dorchester street (north). Bitulithic (crushed stone base). Laid by Warren Brothers Company.	{	61 55	1905 1919	June 11, 1924. Sept. 18, 1925.
West Brookline street (city proper).....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	
West Brookline street (city proper).....	Tremont street to 15 feet west of Tremont street. Laid by B. E. Grant Company.	15	59	1920	Sept. 18, 1925.
West Brookline street (city proper).....	At Warren avenue. Pine wood block. Laid by Boston Paving Company.	4	16	1913	
Westbrook street (East Boston).....	At Saratoga street. Standard asphalt. Laid by Berndez Company.....	8	32	1918	May 1, 1924.
West Canton street (city proper).....	20 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	20	79	1920	Sept. 18, 1925.
West Canton street (city proper).....	Tremont street to 13 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	13	53	1920	Sept. 18, 1925.
West Canton street (city proper).....	13 feet west of Tremont street to 34 feet west of Tremont street. Asphalt (macadam base). Laid by B. E. Grant Company.	21	80	1920	Sept. 18, 1925.
West Canton street (city proper).....	34 feet west of Tremont street to 4 feet east of Warren avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company..... Bessemer brick block gutters. Laid by Warren Brothers Company.	564 {	1,798 308	1916 1916	Oct. 21, 1921. Oct. 21, 1921.

West Canton street (city proper).....	4 feet east of Warren avenue to Warren avenue. Pine wood block. Laid by Boston Paving Company.	4	18	1913
West Canton street (city proper).....	Warren avenue to 4 feet west of Warren avenue. Pine wood block. Laid by Boston Paving Company.	4	18	1913
West Canton street (city proper).....	4 feet west of Warren avenue to 2 feet east of Appleton street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	257 {	828	1916
West Canton street (city proper).....	Bessemer brick block gutters. Laid by Warren Brothers Company.....		145	Oct. 21, 1921. Oct. 21, 1921.
West Canton street (city proper).....	2 feet east of Appleton street to Appleton street. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	2	11	1912
West Canton street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07
West Concord street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	16	63	1920
West Dedham street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	15	59	Sept. 18, 1925. Sept. 18, 1925.
West Fifth street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	4	15	1905
West Fourth street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	5	19	1905
West Fourth street (South Boston).....	2 feet east of E street to E street. Bitulithic. Laid by Warren Brothers Company.	2	7	1903
West Fourth street (South Boston).....	E street to 207 feet west of E street. Bitulithic. Laid by Warren Brothers Company.	207	759	1903
Westland avenue (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1	9	1901
Westland Entrance to Fens (Roxbury)	Westerly curb line of Hemenway street to 18 feet west of easterly curb line of the Fenway. Bitulithic (macadam base). Laid by Warren Brothers Company.	450	2,864	1920
Westminster street (Roxbury).....	Hammond street to 23 feet south of Hammond street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	23	120	1912
Westminster street (Roxbury).....	23 feet south of Hammond street to 6 feet north of Rugles street. Topeka. Laid by Central Construction Company.	1,153	3,853	1919
Westminster street (Roxbury).....	6 feet north of Rugles street to Rugles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	19	June 24, 1924. 1907

## List of Streets Having a Smooth Pavement.—Continued

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Warranty Expires.
West Newton street (city proper).....	Washington street to Shawmut avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	323	1,176	1919	May 14, 1924.
West Newton street (city proper).....	11 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	14	55	1920	Sept. 18, 1925.
West Newton street (city proper).....	Tremont street to 17 feet west of Tremont street.....	17	111	1920	Sept. 18, 1925.
West Newton street (city proper).....	17 feet west of Tremont street to 13 feet east of Columbus avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	766	3,083	1904	
West Newton street (city proper).....	13 feet east of Columbus avenue to Columbus avenue. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	13	97	1912	
West Newton street (city proper).....	Columbus avenue to 4 feet south of Huntington avenue (not including New York, New Haven & Hartford Railroad Bridge). Bitulithic (crushed stone base). Laid by Central Construction Company.	1,040	3,932	1917	
West Newton street (city proper).....	4 feet south of Huntington avenue to Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	19	1896	
West Newton street (city proper).....	Huntington avenue to 4 feet north of Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	19	1896	
West Newton street (city proper).....	4 feet north of Huntington avenue to 11 feet north of Huntington avenue. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	7	26	1917	
West Newton street (city proper).....	11 feet north of Huntington avenue, across Belvidere street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	239	903	1903	
Western avenue (Brighton) (south side),	181 feet west of Riverdale street to 146 feet east of Riverdale street. Topeka (macadam base). Laid by department forces.	.....	345	1920	
West Rutland square (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	



West Seventh street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	4	16	1905	
West Sixth street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company.....	4	18	1905	
West Sixth street (South Boston).....	C street to D street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	503	1,490	1905	
West Springfield street (city proper).....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
West Springfield street (city proper).....	Tremont street to 15 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
West Springfield street (city proper).....	9 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
West Third street (South Boston).....	153 feet west of E street to 2 feet east of E street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	187	702	1892	
West Tremlett street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	21	1913	
Westcott street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	12	60	1911	
Weston street (Roxbury).....	Warwick street to Cabot street. Topoka. Laid by Central Construction Company.	164	401	1919	July 9, 1921.
Weston street (Roxbury).....	Cabot street to Tremont street. Topoka. Laid by Central Construction Company.	366	978	1919	July 9, 1921.
Weston street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	9	20	1906-07	
Westville street (Dorchester).....	Each side of Geneva avenue. Topoka (macadam base). Laid by department forces.	2	16	1920	
Westwood street (Dorchester).....	Richfield street to the south street line of Wales place. Mexican asphalt. Laid by Central Construction Company.	581	1,755	1917	June 1, 1922.
Wharf street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Company.	1	1	1917	
Wheatland avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	38	1913	

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Wheeler street (city proper).....	Shawmut avenue to Corning street. Acme asphalt. Laid by Warren Brothers Company.	360	585	1909	
Whitfield street (Dorchester).....	13 feet north of Talbot avenue to Talbot avenue. Mack brick block. Laid by James Doherty.	13	60	1911	
Whitfield street (Dorchester).....	Talbot avenue to 13 feet south of Talbot avenue. Mack brick block. Laid by James Doherty.	13	57	1911	
Whitfield street (Dorchester).....	13 feet south of Talbot avenue to 6 feet north of Southern avenue. Trinidad asphalt. Laid by Central Construction Company.	88	265	1914	
Whitfield street (Dorchester).....	9 feet south of Southern avenue to 2 feet north of Norfolk street. Trinidad asphalt. Laid by Central Construction Company.	414	1,212	1914	
Whitfield street (Dorchester).....	2 feet north of Norfolk street to Norfolk street. Bitulithic. Laid by James Doherty.	2	7	1914	
Whitman street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
Whitmore street (city proper).....	8 feet south of Kneeland street to 6 feet north of Harvard street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	235	417	1895	
Whitmore street (city proper).....	6 feet north of Harvard street to Harvard street. Pine wood block. Laid by J. H. McCarthy.	6	10	1919	
Whitney street (Roxbury).....	At Conant street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	18	1919	Nov. 1, 1924.
Whitney street (Roxbury).....	Each side Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	14	40	1919	Nov. 8, 1924.
Whittemore terrace (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	26	1910	
Whittier street (Roxbury).....	Calbot street to Tremont street. Mack brick block. Laid by John F. Burns & Co.	636	1,874	1909	

Whittier street (Roxbury).....	207	782	1909
Trentont street to 5 feet east of Columbus avenue. Mack brick block. Laid by John E. Bursus & Co.			
Whittier street (Roxbury).....	5	25	1906-07
Wiget street (city proper).....	6	7	1901
Wiget street (city proper).....	253	233	1897
Wiggin street (city proper).....	108	120	1905
Wigglesworth street (Roxbury).....	8	23	1910
Wilbur street (Dorchester).....	336	828	1920
Wilcock street (Dorchester).....	778	2,279	1920
Wilder street (Dorchester).....	10	30	1912
William Jackson avenue (Brighton).....	502	957	1920
Williams street (Roxbury).....	514	1,490	1919
Williams street (Roxbury).....	441	1,277	1919
Willis street (Dorchester).....	41	102	1920
Willowwood street (Dorchester).....	8	25	1918
Wilmore street (Dorchester).....	11	40	1918
Winchester street (city proper).....	10	28	1913

Oct. 20, 1925.

July 7, 1925.

Nov. 30, 1925.

June 24, 1924.

June 24, 1924.

Sept. 22, 1925.

Nov. 4, 1923.

Nov. 4, 1923.

## List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Windmere road (Dorchester).....	At Sloughton street. Topeka (macadam base). Laid by Department forces	3	10	1920	
Windsor street (Roxbury).....	Shawmut avenue to Westminster street. Topeka. Laid by Central Construction Company.	425	1,605	1919	July 9, 1924.
Windsor street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.	305	1,379	1919	July 9, 1924.
Windsor street (Roxbury).....	Warwick street to Cabot street. Topeka. Laid by Central Construction Company.	164	624	1919	July 9, 1924.
Winship street (Brighton).....	At Washington street. Bitulithic. Laid by Warren Brothers Company.....	18	140	1913	
Winslow street (Roxbury).....	At Zeigler street. Bitulithic. Laid by John F. Beatty.....	1	3	1914	
Winslow street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	8	23	1910	
Winter street (city proper).....	Washington street to 10 feet east of Tremont street. Bitulithic. Laid by Warren Brothers Company.	505	1,122	1913	
Winter street (city proper).....	10 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	10	31	1915	
Winter street (Dorchester).....	At Bowdoin street. Mack brick block. Laid by Central Construction Company.	9	45	1913	
Winthrop street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bermudez Company.....	9	17	1917	Dec. 15, 1922.
Wirt street (Brighton).....	At Washington street. Bitulithic. Laid by Warren Brothers Company.....	12	212	1913	
Withington street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
Wollaston terrace (Dorchester).....	Woodrow avenue to Jones avenue. Topeka. Laid by Rowe Contracting Company.	313	595	1920	July 29, 1925.
Woodcliff street (Roxbury).....	Dacia street to Blue Hill avenue. Bitulithic. Laid by Warren Brothers Company.	310	896	1906	

			10	1920	July 29, 1925.
Woodrow avenue (Dorchester).....	At Wollaston terrace. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	10	1920	July 29, 1925.
Woodrow avenue (Dorchester).....	49 feet east of Irma street to 10 feet west of Irma street. Bitulithic (macadam base). Laid by Warren Brothers Company.	89	302	1919	May 26, 1924.
Woodrow avenue (Dorchester).....	At Laurene street. Aztec asphalt (macadam base). Laid by Hernandez Company.	.....	25	1919	Oct. 20, 1924.
Woolson street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918	Nov. 4, 1923.
Worcester square (city proper).....	Washington street to 3 feet west of Harrison avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	660	3,807	1919	Nov. 11, 1924.
Worcester square (city proper).....	3 feet west of Harrison avenue to Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	3	24	1919	Nov. 11, 1924.
Worcester street (city proper).....	Columbus avenue to 2 feet east of Columbus avenue. Mexican asphalt. Laid by Central Construction Company.	2	8	1919	Nov. 11, 1924.
Worcester street (city proper).....	2 feet east of Columbus avenue to 10 feet east of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	8	31	1906-07	
Worcester street (city proper).....	10 feet east of Columbus avenue to Tremont street. Mexican asphalt (macadam base). Laid by Central Construction Company.	635	2,460	1919	Nov. 11, 1924.
Worcester street (city proper).....	Tremont street to 5 feet east of Tremont street. Asphalt. Laid by B. E. Grant Company.	5	22	1920	Sept. 18, 1925.
Worcester street (city proper).....	5 feet west of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	5	22	1920	Sept. 18, 1925.
Worcester street (city proper).....	Tremont street to Shawmut avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	832	3,151	1919	Nov. 11, 1924.
Worcester street (city proper).....	Shawmut avenue to Washington street. Mexican asphalt (macadam base). Laid by Central Construction Company.	340	1,289	1919	Nov. 11, 1924.
Wordsworth street (East Boston).....	Coleridge street to 70 feet north of Cowper street. Mexican asphalt. Laid by Central Construction Company.	316	1,090	1917	Aug. 6, 1922.
Wordsworth street (East Boston).....	45 feet south of Homer street to 9 feet north of Horace street. Mexican asphalt. Laid by Central Construction Company.	335	1,186	1917	Aug. 6, 1922.

List of Streets Having a Smooth Pavement.—Concluded.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Wordsworth street (East Boston).....	8 feet south of Saratoga street to Saratoga street. Laid by Bermudez Company.	8	32	1918	May 1, 1924.
Wordsworth street (East Boston).....	Saratoga street to 11 feet west of Saratoga street. Laid by Bermudez Company.	11	53	1918	May 1, 1924.
Worthington street (Roxbury).....	Each side of Smith street. Aztec asphalt (macadam base).....	14	42	1919	Nov. 8, 1924.
Worthington street (Roxbury).....	8 feet south of Longwood avenue to Longwood avenue. Laid by Field, Barker & Underwood, Inc.	8	23	1910	
Worthington street (Roxbury).....	Longwood avenue to 8 feet north of Longwood avenue. Laid by Field, Barker & Underwood, Inc.	8	26	1910	
Worthington street (Roxbury).....	8 feet north of Longwood avenue to street No. 220. Laid by Central Construction Company.	828	2,395	1915	
Yarmouth street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
York street (Dorchester).....	Greenwood street to Glenway street. Topeka. Laid by Rowe Contracting Company.	440	1,274	1919	Dec. 10, 1924.
Zeigler street (Roxbury).....	7 feet east of Washington street to Warren street. Granitoid concrete blocked pavement. Laid by R. S. Blone Company.	315	946	1908	
Zeigler street (Roxbury).....	Warren street to Harrison avenue. Bitulithic. Laid by John F. Beatty...	177	380	1914	
Zeigler street (Roxbury).....	8 feet east of Harrison avenue to 9 feet west of Dearborn street. Bitulithic. Laid by John F. Beatty.	866	1,864	1914	
Zeigler street (Roxbury).....	9 feet west of Dearborn street to Dearborn street. Acme asphalt. Laid by Warren Brothers Company. Bessemer brick block gutters. Laid by Warren Brothers Company.....	9 {	15 5	1917 1917	Nov. 20, 1922. Nov. 20, 1922.

TOTALS OF SMOOTH PAVEMENT STREETS, FEBRUARY 1, 1921.  
Wood Block.

KIND.	UNDER GUARANTY.		NOT UNDER GUARANTY.		TOTALS.	
	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.
Black gum.....			1,142	6,806	1,142	6,806
Pine.....	19,317	84,195	36,334	169,074	55,651	253,269
Jennison Wright pine.....			529	2,230	529	2,230
Jennison Wright slab wood pavement.....			1,103	6,152	1,103	6,152
Total, wood block.....	19,317	84,195	38,108	184,262	57,425	268,457

Brick Block.

Mack.....			24,595	95,803	24,595	95,809
Barrington.....			566	558	566	558
Metropolitan.....			569	2,293	569	2,293
Vitrified.....			12	11	12	11
Canton block.....			636	1,764	636	1,764
Bessemer.....	334	5,872	1,385	6,207	1,719	12,079
Portland stone.....				128		128
Miscellaneous.....			25	41	25	41
Total, brick block.....	334	5,872	27,788	106,811	28,122	112,683

## SUMMARIES OF SMOOTH PAVEMENT STREETS, FEBRUARY 1, 1921.

Kind.	Under Guaranty.		Not Under Guaranty.		Totals.	
	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.
Asphalt.....	108,033	421,839	123,488	340,713	231,521	762,552
Unionite.....	121	470	.....	.....	121	470
Asphalt block.....	.....	.....	98	774	98	774
Bitulithic.....	43,657	203,321	64,258	227,457	107,915	430,778
Topeka.....	44,967	159,830	9,313	28,424	54,280	188,254
Endurite.....	.....	.....	10	1,614	10	1,614
Filbertine.....	326	959	.....	.....	326	959
Granitoid concrete blocked pavement.....	.....	.....	315	946	315	946
Concrete road.....	192	293	8,910	23,584	9,102	23,877
Roman road.....	433	1,250	.....	.....	433	1,250
Wood block.....	919,317	84,195	39,108	184,262	58,425	208,457
Brick block.....	334	5,872	27,788	106,811	28,122	112,683
Scoria block.....	.....	.....	322	254	322	254
Total of all smooth pavements.....	217,380	878,029	273,610	914,839	490,990	1,792,868



## LIST OF STREETS PAVED WITH GRANITE BLOCKS HAVING A MAINTENANCE GUARANTY.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
A street (South Boston) .....	7 feet west of Gold street to Dorchester avenue. (Old block.) Laid by Central Construction Company.	54	209	1918	Nov. 9, 1922.
Albany street (city proper) .....	Kneeland street to Boston & Albany Railroad Bridge. Laid by Coleman Brothers. (New.)	1,272	5,828	1918	Aug. 13, 1923.
Albany street (city proper) .....	52 feet south of Seneca street to 6 feet south of Oneida street. Laid by James Doherty. (Old block.)	74	441	1920	Unfinished.
Albany street (city proper) .....	6 feet south of Oneida street to 13 feet south of Genesee street. Laid by James Doherty. (New block.)	248	1,488	1920	Unfinished.
Albany street (city proper) .....	13 feet south of Genesee street to 84 feet south of Troy street. Laid by James Doherty. (Old block.)	328	1,968	1920	Unfinished.
Albany street (city proper) .....	Dover street to 7 feet north of Stoughton street. Laid by Bernard E. Grant. (New.)	3,577	22,144	1917	Jan. 21, 1923.
Albion place (Charlestown) .....	At Main street. Laid by William J. Barry. (Recut block.) .....	13	37	1919	Unfinished.
Alden street (city proper) .....	At Sudbury street. Laid by Simpson Brothers Corporation. (New.) .....	6	24	1918	Sept. 6, 1923.
Amory street (Roxbury) .....	Centre street to 10 feet north of Bragdon street. Laid by James Doherty. (New.)	1,398	5,525	1917	June 1, 1922.
Anderson street (city proper) .....	At Cambridge street. Laid by Central Construction Company. (Recut.)	8	25	1919	Aug. 16, 1924.
Ashland street (West Roxbury) .....	Washington street to 51 feet south of Washington street. (New block.) Laid by William J. Barry.	51	194	1920	Dec. 24, 1925.
Atlantic avenue (city proper) .....	South street line of Kneeland street to 91 feet south of Summer street. Laid by Coleman Brothers. (Old.)	1,153	8,790	1918	Nov. 2, 1923.
Atlantic avenue (city proper) .....	67 feet north of Summer street across Broad street. Laid by Bernard E. Grant. (Old.)	2,021	17,095	1918-19	Oct. 3, 1924.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Atlantic avenue (city proper).....	Broad street to south side of South Market street. Laid by Rossetti & Co. (New.)	1,281	11,152	1918	Jan. 17, 1924.
Atlantic avenue (city proper).....	South side of South Market street to Commercial street. Laid by D'Onfro Brothers. (New.)	1,270	11,013	1918-19	May 31, 1924.
Auburn street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	16	48	1919	June 12, 1925.
Austin street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	13	37	1919	June 12, 1925.
Baldwin street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	12	52	1919	June 12, 1925.
Baldwin street (Charlestown).....	At Main street. Laid by Coleman Brothers. (Recut.).....	10	32	1920	July 8, 1925.
Batterymarch street (city proper).....	2 feet west of Broad street to 93 feet west of Broad street. Laid by Bernard E. Grant. (New.)	91	282	1916	Oct. 20, 1921.
Batterymarch street (city proper).....	Angle to Franklin street. Laid by Bernard E. Grant. (New.).....	197	808	1916	Oct. 20, 1921.
Peach street (city proper).....	Harrison avenue to Atlantic avenue. Laid by Bernard E. Grant. (New.)	1,264	4,811	1917	Aug. 6, 1922.
Beacon street (city proper).....	12 feet west of Tremont street to 21 feet west of Park street. Laid by Bernard E. Grant. (New.)	827	2,318	1917	Oct. 21, 1922.
Beacon street (city proper).....	21 feet west of Park street to Charles street. Laid by Bernard E. Grant. (Gutters—old blocks.)	.....	1,125	1917	Nov. 15, 1922.
Belcher lane (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.).....	9	9	1919	Oct. 3, 1924.
Belden street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old block.).....	10	17	1920	Unfinished.
Bellflower street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	33	1919	Aug. 30, 1924.
Bennington street (East Boston).....	Central square across Marion street. Laid by McGuire & McGourty. (Recut.)	878	3,317	1919	Dec. 13, 1924.

Bennington street (East Boston).....	Marion street across Prescott street. Laid by McGuire & McGourty. (Recut.)	1,942	1,116	1919	Dec. 13, 1924.
Bennington street (East Boston).....	Prescott street to 75 feet north of Prescott street. Laid by McGuire & McGourty. (Recut.)	76	120	1919	Dec. 13, 1924.
Benton street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.)	12	33	1919	Dec. 12, 1924.
Blackstone street (city proper).....	Clinton street to Hanover street. Laid by Coleman Brothers. (Old blocks.)	699	3,299	1920	Sept. 9, 1925.
Blackstone street (city proper).....	Hanover street to 28 feet south of Haymarket square. Laid by Coleman Brothers. (Old block.)	388	1,733	1920	Sept. 9, 1925.
Blossom street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.)	10	28	1919	Aug. 16, 1924.
Bowker street (city proper).....	At Sudbury street. Laid by Simpson Brothers Corporation. (Old.)	57	215	1918	Sept. 6, 1923.
Boylston street (Roxbury).....	14 feet west of St. Cecilia street to 90 feet east of Massachusetts avenue. Laid by James Doherty. (New.)	136	504	1919	Aug. 30, 1921.
Boylston street (Roxbury).....	Boston & Albany Railroad Bridge to 14 feet west of St. Cecilia street. Laid by James Doherty. (Recut.)	91	363	1919	Aug. 30, 1924.
Broad street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (New.)	66	477	1919	Oct. 3, 1924.
Broadway (city proper).....	Washington street to Harrison avenue. Laid by James Doherty. (Recut.)	385	1,750	1918	Oct. 5, 1923.
Broadway (city proper).....	Harrison avenue to Boston & Albany Railroad Bridge. Laid by James Doherty. (Recut.)	230	1,120	1918	Oct. 5, 1923.
Brooks street (East Boston).....	At each side of Bennington street. Laid by McGuire & McGourty. (Recut.)	18	65	1919	Dec. 13, 1924.
Bunker Hill street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.)	27	122	1920	June 12, 1925.
Burke street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.)	14	38	1919	Dec. 12, 1924.
Burlington avenue (Roxbury).....	Brookline avenue to Boston & Albany Railroad. Laid by Gore Incorporated. (Recut.)	516	1,942	1919	July 19, 1924.
Cabot street (Roxbury).....	Tremont street to 154 feet south of Tremont street. Laid by Bernard E. Grant. (Recut.)	154	692	1919	Dec. 12, 1924.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cambridge street (city proper).....	Charles street across South Russell street. Laid by Central Construction Company. (Recut.)	1,303	5,206	1919	Aug. 16, 1924.
Cambridge street (Charlestown).....	Main street to 73 feet west of Main street. Laid by William J. Barry. (Recut.)	73	985	1919	June 12, 1925.
Cambridge street (Charlestown).....	73 feet west of Main street to 63 feet west of Rutherford avenue. Laid by Coleman Brothers. (Old.)	118	973	1920	July 18, 1925.
Canal street (city proper).....	Haymarket square to Causeway street. Laid by Bernard E. Grant. (New.)	1,060	5,493	1917	July 9, 1922.
Causeway street (city proper).....	12 feet west of Washington Street North, across Prince Street. Laid by Bernard E. Grant. (Old.)	251	1,720	1919	Nov. 1, 1924.
Central street (city proper).....	At Atlantic avenue. Laid by Rossetti & Co. (New.).....	52	277	1918	Jan. 17, 1924.
Channing street (city proper).....	Federal street to 9 feet east of Federal street. Laid by James Doherty. (Recut.)	9	20	1919	April 29, 1925.
Channing street (city proper).....	9 feet east of Federal street to Congress street. Laid by James Doherty. (Old.)	221	426	1919-20	April 29, 1925.
Chapman street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	22	1919	June 12, 1925.
Chapman street (Charlestown).....	Each side Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	31	108	1920	July 8, 1925.
Charles street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	16	1920	June 12, 1925.
Charter street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.).....	9	25	1918	Nov. 1, 1924.
Church street (city proper).....	Tremont street to 6 feet south of Fayette street. Laid by James Doherty. (Old.)	129	372	1919	July 15, 1924.
Clark street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (Old.).....	10	26	1919	Aug. 13, 1924.
Clifton street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.).....	10	62	1920	Unfinished.

Clinton street (city proper) .....	Merchants row, across Commercial street. Laid by Coleman Brothers. (New.)	593	2,589	1918	July 27, 1923.
Columbia road (Dorchester) .....	8 feet north of Dudley street to 52 feet south of East Cottage street. Laid by Bernard E. Grant. (New.)	1,460	4,709	1916	Nov. 18, 1921.
Columbia road (Dorchester) .....	Each side of Dorchester avenue. Laid by William J. Barry. (Recut.).....	28	62	1919	Aug. 30, 1924.
Columbus avenue (Roxbury) .....	67 feet north of Station street to Tremont street. Laid by Bernard E. Grant. (Recut.)	186	1,328	1919	Dec. 12, 1924.
Commerce street (city proper) .....	At Atlantic avenue. Laid by Rossetti & Company. (New.).....	39	173	1918	Jan. 17, 1924.
Commercial street (city proper) .....	Hanover street, across Hull street. Laid by Bernard E. Grant. (Old.).....	1,453	9,088	1918-19	Nov. 1, 1924.
Commercial street (city proper) .....	Hull street to Prince street. Laid by Bernard E. Grant. (Old.).....	234	1,178	1918	Nov. 1, 1924.
Commercial street (city proper) .....	North side of Fleet street, across Hanover street. Laid by D'Onfro Brothers. (Old.)	1,341	9,050	1918-19	Aug. 13, 1924.
Common street (city proper) .....	At Tremont street. Laid by James Doherty. (New.).....	49	173	1919	July 15, 1924.
Congress street (city proper) .....	Atlantic avenue to Harbor line. Laid by John E. Quinn. (New.) .....	611	4,084	1918	Aug. 28, 1923.
Congress street (city proper) .....	35 feet north of Atlantic avenue to Atlantic avenue. Laid by Bernard E. Grant. (Old.)	35	160	1919	Oct. 3, 1924.
Congress street (city proper) .....	Franklin street to 138 feet North of Franklin street. Laid by James Doherty. (Old.)	138	640	1920	Sept. 2, 1925.
Corinth street (West Roxbury) .....	At Washington street. Laid by William J. Barry. (New.) .....	19	74	1920	Dec. 24, 1925.
Coring street (city proper) .....	At Tremont street. Laid by James Doherty. (Old.) .....	10	31	1919	July 15, 1924.
Crescent avenue (Dorchester) .....	At Dorchester avenue. Laid by William J. Barry. (Recut.) .....	12	74	1919	Aug. 30, 1924.
Cross street (city proper) .....	Commercial street to 9 feet east of North street. Laid by Coleman Brothers. (New.)	467	998	1918	July 28, 1923.
Cross street (city proper) .....	3 feet west of North street to 4 feet east of Hanover street. Laid by Coleman Brothers. (New.)	287	627	1918	July 28, 1923.
Cross street (city proper) .....	4 feet west of Hanover street to 2 feet east of Endicott street. Laid by Coleman Brothers. (New.)	439	781	1918	July 28, 1923.

## List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cross street (city proper).....	1 foot west of Endicott street to 9 feet east of Haymarket square. Laid by Coleman Brothers. (New.)	195	585	1918	July 28, 1923.
Canard street (Roxbury).....	Each side of Tremont street. Laid by Bernard E. Grant. (Recut.).....	22	85	1919	Dec. 12, 1924
Dartmouth street (city proper).....	Tremont street to 1 feet south of Warren avenue. Laid by James Doherty. (New.)	502	2,240	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	4 feet north of Warren avenue to Columbus avenue. Laid by James Doherty. (New.)	536	2,381	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	10 feet north of Columbus avenue to bridge over New York, New Haven & Hartford Railroad. Laid by James Doherty. (New.)	461	1,490	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	Bridge over Boston & Albany Railroad to 3 feet south of Stuart street. Laid by James Doherty. (New.)	131	482	1918	Oct. 26, 1923.
Devens street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	57	200	1919	June 12, 1925.
Devonshire street (city proper).....	Dock square to 75 feet south of Dock square. Laid by Bernard E. Grant. (New.)	.75	117	1916	Dec. 4, 1921.
Devonshire street (city proper).....	North side of Franklin street to 100 feet south of Franklin street. Laid by James Doherty. (Old.)	100	390	1920	Sept. 2, 1925.
Dorchester avenue (city proper).....	Congress street to Summer street. Laid by John E. Quinn. (New.).....	316	2,107	1918	Aug. 26, 1923.
Dorchester avenue (South Boston)....	128 feet north of Leeds street to 176 feet north of Hyde street. Laid by Central Construction Company. (Recut.)	618	2,748	1918	Sept. 5, 1920.
Dorchester avenue (South Boston)....	176 feet north of Hyde street to 3 feet north of Ralston street. Laid by William J. Barry. (Recut.)	368	1,635	1919	Aug. 30, 1924.
Dorchester avenue (South Boston)....	South abutment. Bridge over Fort Point Channel to 3 feet south of West Second street. Laid by John Kelly Company. (Old.)	719	3,489	1920	Dec. 24, 1925.

Dorchester avenue (South Boston).....	South side bridge over Old Colony Railroad to 150 feet south of Washburn street. Laid by William J. Barry. (Recut.)	525	2,333	1919	Aug. 30, 1924.
Dorchester avenue (Dorchester).....	150 feet south of Washburn street to 67 feet north of Victoria street. Laid by William J. Barry. (Recut.)	3,381	15,027	1919	Aug. 30, 1924.
Dorchester avenue (Dorchester).....	10 feet south of Hallam street to 8 feet south of Savin Hill avenue. Laid by William J. Barry. (Recut.)	553	2,478	1919	Aug. 30, 1924.
Dorchester avenue (Dorchester).....	8 feet south of Savin Hill avenue to 52 feet north of East street. Laid by Bernard E. Grant. (Recut.)	1,895	8,422	1917	Nov. 17, 1922.
Dorchester avenue (Dorchester).....	52 feet north of East street to 148 feet south of Charles street. (Recut.) East side and between tracks laid by James Doherty..... West side laid by Bernard E. Grant.....	2,742 2,742	7,408 4,125	1918 1917	Dec. 1, 1923. Dec. 18, 1922.
Dorchester avenue (Dorchester).....	148 feet south of Charles street to 45 feet south of Park street. Laid by James Doherty. (Old.)	691	2,881	1918	Dec. 19, 1923.
Dorchester avenue (Dorchester).....	South side of bridge over New York, New Haven & Hartford Railroad (Peabody square) to 118 feet south of Belkows place. Laid by James Doherty. (Old.)	3,934	16,610	1917-18	June 4, 1923.
Dorchester avenue (Dorchester).....	2 feet north of Richmond street to Washington street. Laid by James Doherty. (Old.)	609	2,394	1917-18	June 4, 1923.
Doris street (Dorchester).....	Each side of Dorchester avenue. Laid by William J. Barry. (Recut.).....	9	47	1919	Aug. 30, 1924.
Dorset street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	33	1919	Aug. 30, 1924.
Dudley street (Dorchester).....	50 feet west of Magnolia street to Columbia road. Laid by De Stefano Brothers. (Old.)	1,412	5,914	1920	Unfinished.
Dunstable street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	19	20	1919	June 12, 1925.
Dunstable street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	25	1920	June 12, 1925.
East Cottage street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	67	1919	Aug. 30, 1924.
East Fourth street (South Boston).....	8 feet west of K street across P street. Laid by John E. Quinn. (Recut.)	159	3,436	1919-20	May 24, 1925.
Eastern avenue (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (Old.).....	9	62	1919	Aug. 13, 1924.
Eden street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	34	85	1919	June 12, 1925.

## List of Streets Paved with Granite Blocks Having a Maintenance Guaranty. — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Edison green (Dorchester).....	North road at Dorchester avenue. Laid by William J. Barry. (Recut.)...	11	83	1919	Aug. 30, 1924.
Edison green (Dorchester).....	South road at Dorchester avenue. Laid by William J. Barry. (Recut.)...	9	50	1919	Aug. 30, 1924.
Elton street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	33	1919	Aug. 30, 1924.
Essex street (Charlestown).....	At Hancock square. Laid by William J. Barry. (Recut.).....	12	50	1919	June 12, 1925.
Essex street (Charlestown).....	Main street across Hancock square. Laid by William J. Barry. (Recut.)...	134	770	1919	June 12, 1925.
Essex street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	10	40	1920	July 8, 1925.
Fargo street (South Boston).....	130 feet west of C street to C street. Laid by Bernard E. Grant Company. (Recut.)	130	636	1920	Unfinished.
Federal street (city proper).....	8 feet south of Franklin street to Dewey square to Purchase street. Laid by James Doherty. (Recut.)	1,651	5,372	1919	April 29, 1925.
Foster street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.).....	10	10	1918	Nov. 1, 1924.
Foundry street (South Boston).....	Dorchester avenue to South side of West First street. Laid by John Kelly Company. (Old.)	135	1,408	1920	Dec. 24, 1925.
Franklin street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	12	30	1919	June 12, 1925.
Freepoint street (Dorchester).....	At Dorchester avenue. Laid by James Doherty. (Recut.).....	51	280	1918	Dec. 1, 1923.
Friend street (city proper).....	Union street to Hanover street. Laid by B. E. Grant Company. (Old.)...	371	1,051	1920	Unfinished.
Friend street (city proper).....	48 feet north of Washington street to south side of Sudbury street. Laid by B. E. Grant Company. (Old.).....	285	570	1920	Unfinished.
Friend street (city proper).....	5 feet north of Sudbury street to 22 feet south of Merimac street. Laid by B. E. Grant Company. (Old.)	144	434	1920	Unfinished.
Frothingham avenue (Charlestown)....	At Main street. Laid by William J. Barry. (Recut.).....	9	20	1919	June 12, 1925.





List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Havre street (East Boston).....	122 feet south of Bennington street to Bennington street. Laid by McGuire & McGourty. (Recut.)	122	556	1919	Dec. 13, 1924.
Hawkins street (city proper).....	Sudbury street to Chardon street. Laid by Simpson Brothers Corporation. (Old.)	444	904	1918	Sept. 6, 1923.
Haymarket square (city proper).....	Laid by Bernard E. Grant. (New.).....	496	6,708	1917	Sept. 15, 1922.
Hendman street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.).....	10	20	1918	Nov. 1, 1924.
Henley street (Charlestown).....	East side of Main street. Laid by William J. Barry. (Recut.).....	17	45	1919	June 12, 1925.
High street (city proper).....	Each side of Federal street. Laid by James Doherty. (Recut.).....	20	90	1919	June 12, 1925.
Howell street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	33	1919	Aug. 30, 1924.
Howes street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	30	1919	Aug. 30, 1924.
Hull street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (New.).....	8	20	1918	Nov. 1, 1924.
Humphreys street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.).....	9	53	1920	Unfinished.
India street (city proper).....	State street to 9 feet east of Milk street. Laid by Bernard E. Grant. (New.)	381	4,430	1917	June 19, 1922.
India street (city proper).....	Angle near Export street to Atlantic avenue. Laid by Rossetti & Co. (Old.)	136	520	1918	Jan. 17, 1924.
Irving street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.)..	8	25	1919	Aug. 16, 1924.
Jefferson street (city proper).....	At Tremont street. Laid by James Doherty. (Recut.).....	68	93	1919	July 15, 1920.
Lake street (Brighton).....	At Washington street. Laid by Warren Brothers Company. (Recut.).....	11	48	1919	July 8, 1925.
Leigh street (city proper).....	At Albany street. Laid by James Doherty. (Old.).....	21	96	1920	Unfinished.
Lincoln street (city proper).....	Essex street to Beach street. Laid by Bernard E. Grant. (New.).....	505	2,442	1917	July 29, 1922.
Lincoln street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	32	1919	June 12, 1925.

Lincoln street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	10	38	1920	July 8, 1925.
Linden Park street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	8	25	1919	Dec. 12, 1924.
Loeust street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	33	1919	Aug. 30, 1924.
London street (East Boston).....	118 feet south of Bennington street to Benington street. Laid by McGuire & McGourty. (Recut.)	118	552	1919	Dec. 13, 1924.
M street (South Boston).....	At East Fourth street. Laid by John E. Quinn. (Recut.).....	9	38	1920	May 24, 1925.
Main street (Charlestown).....	City square, across Hancock square. Laid by William J. Barry. (Recut.)...	3,121	17,241	1919	June 12, 1925.
Main street (Charlestown).....	Hancock square to 101 feet north of Alford street. Laid by William J. Barry. (Recut.)	2,688	17,329	1919	June 12, 1925.
Marion street (East Boston).....	Each side of Benington street. Laid by McGuire & McGourty. (Recut.)...	17	71	1919	Dec. 13, 1924.
Matthews street (city proper).....	At Federal street. Laid by James Doherty. (Recut.).....	10	20	1919	April 29, 1925.
Mayfield street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	35	1919	Aug. 30, 1924.
Mead street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	15	50	1919	June 12, 1925.
Medford street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	21	90	1920	June 12, 1925.
Mercantile street (city proper).....	South Market street to Clinton street. Laid by Coleman Brothers. (New.)	185	620	1918	June 29, 1923.
Mercantile street (city proper).....	Clinton street to Richmond street. Laid by Coleman Brothers. (New.)...	360	1,971	1918	June 29, 1923.
Middlesex street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	12	30	1919	June 12, 1925.
Mill street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	11	30	1920	July 8, 1925.
Miller street (Charlestown).....	At Main street. Laid by William J. Barry. (New.).....	10	20	1919	June 12, 1925.
Miller street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	9	21	1920	July 8, 1925.
Mishawum street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	9	25	1919	June 12, 1925.
Mishawum street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	10	30	1920	July 8, 1925.
Monadnock street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.).....	10	42	1920	Unfinished.

## List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Monument avenue (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.)	10	31	1919	June 12, 1925.
Motley street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.)	12	15	1919	Dec. 12, 1924.
Mt. Vernon street (Dorchester).....	Each side Dorchester avenue. Laid by William J. Barry. (Recut.)	22	70	1919	Aug. 30, 1924.
N street (South Boston).....	9 feet north of East Fourth street to East Fourth street. Laid by John E. Quinn. (Recut.)	9	36	1919	May 24, 1925.
Neponset avenue (Dorchester).....	South side Holbrook street to tangent north side Chickatawbut street. (East side and tracks.) Laid by John F. Lynch. (Old.)	345	1,147	1917	April 26, 1923.
Neponset avenue (Dorchester).....	Tangent north side Chickatawbut street to 25 feet south of Ashmont street. Laid by John F. Lynch. (Old.)	1,336	8,623	1917-18	April 26, 1923.
Newbury street (Roxbury).....	300 feet east of Massachusetts avenue to Massachusetts avenue. Laid by James Doherty. (New.)	300	1,210	1919	Dec. 18, 1924.
North street (city proper).....	Each side of Blackstone street. Laid by Coleman Brothers. (Old.)	24	101	1920	Sept. 9, 1925.
North street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (Old.)	10	40	1919	Aug. 13, 1924.
North Anderson street (city proper)...	At Cambridge street. Laid by Central Construction Company. (Recut.)	10	28	1919	Aug. 16, 1924.
Northern avenue (city proper).....	Atlantic avenue to bridge. Laid by Bernard E. Grant. (Old.)	166	1,186	1919	Oct. 3, 1924.
Oak street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.)	13	42	1919	June 12, 1925.
Oliver street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.)	32	126	1919	Oct. 3, 1924.
Oneida street (city proper).....	13 feet west of Albany street to Albany street. Laid by James Doherty. (New.)	13	29	1920	Unfinished.
Oswego street (city proper).....	13 feet west of Albany street to Albany street. Laid by James Doherty. (New.)	13	20	1920	Unfinished.

		1,687	1917-18	Aug. 1, 1923.
Overland street (Roxbury).....	Brookline avenue to Boston & Albany Railroad. Laid by James F. Coughlin Company. (New.)	399		
P street (South Boston).....	45 feet north of East Fourth street to East Fourth street. Laid by John E. Quinn. (Recut.)	45	1920	May 24, 1925.
P street (South Boston).....	East Fourth street to 27 feet south of East Fourth street. Laid by John E. Quinn. (Recut.)	27	1920	May 24, 1925.
Paris street (East Boston).....	At Bennington street. Laid by McGuire & McGourty. (Recut.).....	124	1919	Dec. 13, 1924.
Park street (city proper).....	Beacon street to 132 feet south of Beacon street. Laid by Warren Brothers Company. (New.)	152	1918	July 14, 1923.
Park street (city proper).....	39 feet north of Tremont street to 7 feet north of Tremont street. Laid by Warren Brothers Company. (New.)	32	1918	July 14, 1923.
Park street (Dorchester).....	Each side of Dorchester avenue. Laid by James Doherty. (New.).....	70	1918	Dec. 1, 1923.
Pearl street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.).....	22	1919	Oct. 3, 1924.
Phipps street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	11	1919	June 12, 1925.
Pleasant street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	13	1919	June 12, 1925.
Poplar street (West Roxbury).....	67 feet north of Washington street to Washington street. Laid by William J. Barry. (New.)	67	1920	Dec. 24, 1925.
Poplar street (West Roxbury).....	Washington street to 6 feet south of Washington street. Laid by William J. Barry. (New.)	61	1920	Dec. 24, 1925.
Porter street (East Boston).....	At Bennington street. Laid by McGuire & McGourty. (Recut.).....	12	1919	Dec. 13, 1924.
Power street (South Boston).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	1919	Aug. 30, 1924.
Prentiss street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	12	1919	Dec. 12, 1924.
Prescott street (East Boston).....	Bennington street to 8 feet north of Bennington street. Laid by McGuire & McGourty. (Recut.)	8	1919	Dec. 13, 1924.
Prescott street (Charlestown).....	At Devens street. Laid by William J. Barry. (Recut.).....	4	1919	June 12, 1925.
Prince street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.).....	10	1919	Nov. 1, 1924.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 710 (city proper).....	East Brookline street to West Newton street. Laid by John Landis. (Recut.)	364	566	1920	Nov. 16, 1925.
Public Alley No. 818 (city proper).....	St. Stephen street to Public Alley No. 819. Laid by John Landis. (Recut.)	893	790	1920	Nov. 20, 1925.
Putnam street (East Boston).....	Each side of Bennington street. Laid by McGuire & McGourty. (Recut.)	18	70	1919	Dec. 13, 1924.
Rawson street (South Boston).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	33	1919	Aug. 20, 1924.
Rochester street (city proper).....	At Albany street. Laid by James Doherty. (New.).....	14	33	1920	Unfinished.
Ronscy street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	33	1919	Aug. 30, 1924.
Roseclair street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	.....	51	1919	Aug. 30, 1924.
Ruggles street (Roxbury).....	20 feet north of Tremont street to Tremont street. Laid by Bernard E. Grant. (Recut.)	20	77	1919	Dec. 12, 1924.
Rutherford avenue (Charlestown).....	6 feet south of Chapman street to Cambridge street. Laid by Coleman Brothers. (Recut.)	3,806	16,653	1920	July 8, 1925.
St. Cecilia street (Roxbury).....	At Boylston street. Laid by James Barry. (Recut.).....	15	44	1919	Aug. 30, 1924.
Salem street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	28	1919	Unfinished.
Salutation street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (New.).....	6	5	1919	Aug. 13, 1924.
Sarfield street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	12	27	1919	Dec. 12, 1924.
Savin Hill avenue (Dorchester).....	Each side Dorchester avenue. Laid by William J. Barry. (Recut.).....	18	118	1919	Aug. 30, 1924.
School street (city proper).....	Washington street to Tremont street. Laid by Bernard E. Grant. (New.)	570	1,298	1916	Nov. 13, 1921.
School street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	11	25	1919	June 12, 1925.
Shirley street (Roxbury).....	Massachusetts avenue to 473 feet north of Norfolk avenue. Laid by Gore, Incorporated. (Old.)	403	2,179	1919	July 2, 1924.

			1918	July 10, 1923.
Somerset street (city proper) . . . . .	Beacon street to 18 feet north of Ashburton place. Laid by Warren Brothers Company. (New.)	335	716	
South street (West Roxbury) . . . . .	125 feet east of Washington street to Washington street. (New.) Laid by William J. Barry. (Recut.)	125	331 200	Dec. 24, 1925.
South street (West Roxbury) . . . . .	Washington street to 67 feet north of Washington street. Laid by William J. Barry. (New.)	67	354	Dec. 24, 1925.
South Eden street (Charlestown) . . . . .	At Main street. Laid by William J. Barry. (Recut.)	15	50	June 12, 1925.
South Eden street (Charlestown) . . . . .	At Rutherford avenue. Laid by Coleman Brothers. (Recut.)	10	35	July 8, 1925.
South Market street (city proper) . . . . .	At Atlantic avenue. Laid by D'Onfro Brothers. (New.)	43	190	Jan. 17, 1924.
South Russell street (city proper) . . . . .	At Cambridge street. Laid by Central Construction Company. (Recut.)	8	16	Aug. 16, 1924.
Southampton street (South Boston) . . . . .	Dorchester avenue to 109 feet west of Dorchester avenue. Laid by Central Construction Company. (Recut.)	109	1,350	Sept. 5, 1922.
Stacey street (Charlestown) . . . . .	At Main street. Laid by William J. Barry. (Recut.)	13	20	June 12, 1925.
State street (city proper) . . . . .	8 feet west of Merchants row to 6 feet west of India street. Laid by John E. Quinn. (Old.)	376	1,332	Oct. 1, 1923.
State street (city proper) . . . . .	6 feet west of India street to 6 feet east of India street. Laid by Bernard E. Grant. (New.)	266	1,217	June 19, 1922.
State street (city proper) . . . . .	6 feet east of India street to Atlantic avenue. Laid by John E. Quinn. (New.)	609	4,317	Oct. 1, 1923.
Station street (Roxbury) . . . . .	At Columbus avenue. Laid by Bernard E. Grant. (Recut.)	11	34	Dec. 12, 1924.
Sudan street (Dorchester) . . . . .	At Dorchester avenue. Laid by William J. Barry. (Recut.)	10	31	Aug. 30, 1924.
Sudbury square (city proper) . . . . .	At Sudbury street. Laid by Simpson Brothers Corporation. (New.)	21	76	Sept. 6, 1923.
Sudbury street (city proper) . . . . .	Court street to Haymarket square. Laid by Simpson Brothers Corporation. (New.)	933	3,435	Sept. 6, 1923.
Sullivan street (Charlestown) . . . . .	At Main street. Laid by William J. Barry. (Recut.)	12	37	June 12, 1925.
Summer street (city proper) . . . . .	West side of South street to Harbor line, Fort Point channel. Laid by Henry J. Clark. (New.)	1,302	10,129	July 16, 1922.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Concluded.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Summer street (South Boston).....	Harbor line to west side of A street. Laid by John McCourt Company. (Old.)	655	5,531	1919	Sept. 17, 1920.
Taft street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	30	1919	Aug. 30, 1924.
Terry street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	12	33	1919	Dec. 12, 1924.
Texas street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	13	21	1919	Dec. 12, 1924.
Thompson street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	11	22	1919	June 12, 1925.
Thornley street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	10	33	1919	Aug. 30, 1924.
Tilbetts town way.....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	10	20	1920	July 8, 1925.
Tremont street (city proper).....	21 feet south of north side of Common street to 3 feet north of Broadway. Laid by James Doherty. (New.)	404	1,818	1919	July 15, 1924.
Tremont street (city proper).....	2 feet south of Broadway to east side bridge Boston & Albany Railroad. Laid by James Doherty. (New.)	738	3,401	1919	July 15, 1924.
Tremont street (city proper).....	2 feet North of Dover street to 9 feet south of north side of Northampton street (including tracks). Laid by B. E. Grant Company. (Recut.)	27	7,337	1920	Sept. 18, 1925.
Tremont street (Roxbury).....	Hammond street across Vernon street. Laid by Bernard E. Grant. (Recut.)	2,182	14,275	1919	Dec. 12, 1924.
Tremont street (Roxbury).....	Vernon street to 178 feet west of Texas street. Laid by Bernard E. Grant. (Recut.)	1,354	8,637	1919	Dec. 12, 1924.
Troy street (city proper).....	At Albany street. Laid by James Doherty. (Old.).....	13	53	1920	Unfinished.
Union street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	11	36	1919	June 12, 1925.
Virginia street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.).....	10	29	1920	Unfinished.
Walker street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	12	30	1919	June 12, 1925.
Walpole street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	12	33	1919	Dec. 12, 1924.
Warren street (Charlestown).....	At Thompson square. Laid by William J. Barry. (Recut.).....	18	60	1919	June 12, 1925.



Warrenton street (city proper).....	10 feet north of Tremont street to Tremont street. Laid by James Doherty. (Recut.)	10	22	1919	July 15, 1924.
Washburn street (South Boston).....	At Dorchester avenue. Laid by William J. Barry. (Recut.).....	11	33	1919	Aug. 30, 1924.
Washington street (Brighton).....	22 feet east of Oakland street, to 20 feet west of Lake street (south side). Laid by Warren Brothers. (Recut.).....		1,682	1919	July 8, 1925.
Washington Street North (city proper),	South abutment bridge over Charles River to Causeway street. Laid by Bernard E. Grant. (Old.)	182	1,870	1919	Nov. 1, 1924.
Washington Street North (city proper),	Causeway street to 10 feet north of Causeway street. Laid by Bernard E. Grant. (Old.)	64	600	1919	Nov. 1, 1924.
Washington street (city proper).....	Haymarket square to 24 feet south of Elm street. Laid by Bernard E. Grant. (New.)	76	3,645	1917	Sept. 24, 1922.
Washington street (West Roxbury)....	East side Archdale road to 69 feet west of Corinth street. Laid by (New) William J. Barry.....	3,357	10,900 } 5,659 }	1920	Dec. 24, 1925.
Washington street (West Roxbury)....	142 feet south of Walk Hill street to east side of Archdale road. Laid by Simpson Brothers Corporation. (New.)	2,765	14,512	1918-19	May 22, 1924.
Washington street (West Roxbury)....	Arbway across Asticon road (west side). Laid by James Doherty. (New.)		2,123	1916	Dec. 2, 1921.
West Cedar street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.)..	9	25	1919	Aug. 16, 1924.
West Fourth street (South Boston)....	Dorchester avenue to 111 feet east of Dorchester avenue. Laid by Central Construction Company. (Recut.)	111	432	1918	Nov. 9, 1921.
Weston street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.).....	12	29	1919	Dec. 12, 1924.
Winthrop street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	22	1919	June 12, 1925.
Wool street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.).....	10	22	1919	June 12, 1925.
SUMMARY.					
	Recut blocks.....	34,577	174,949		
	Old blocks relaid.....	22,128	121,694		
	New blocks.....	35,780	182,732		
	Total granite block pavements having a maintenance guaranty.....	92,485	479,365		

TABLE SHOWING THE UNIT COST OF BITUMINOUS PAVEMENT REPAIRS PER SQUARE YARD  
OF STREET SURFACE FROM 1911 TO 1920, INCLUSIVE.

Sheet Asphalt.

With 1½-Inch Wearing Surface and 1½-Inch Binder on a Cement Concrete Base.

STREET.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Albany street . . . . .	East Concord street to 225 feet north of Massachusetts avenue.	1884	\$0.284	\$0.235	\$0.150	\$0.174	\$0.311	\$0.059	\$			
Andrews street . . . . .	East Dedham street to East Concord street.	1899					.009					
Arl street . . . . .	Milk street to Franklin street. . . . .	1915					†		\$0.001	\$0.023		\$0.081
Arl street . . . . .	Franklin street to Summer street. . . . .	1915					†		.026	.003		.088
Arlington street . . . . .	Boylston street to Beacon street. . . . .	1901	*,010	.002	.014	.015	.056	.008	.066	.014	\$0.021	.040
Ash street . . . . .	Bennet street to Nassau street. . . . .	1905					*		.051			
Ash street . . . . .	North side Nassau street to north side Oak street.	1909				*			.027			
Auburn street . . . . .	Leverett street to Poplar street. . . . .	1911						*	.024	.003		.235
Austin street . . . . .	Seminary place to Lawrence street. . . . .	1891	.821	.109	.087	.164	.199	.372	.165	.913		.076
Avon street . . . . .	Washington street to Chauncy street. . . . .	1901	*,028	.023	.146	.045	.139	.064	.588	.374	.040	.937
Barton court . . . . .	Barton street to Brighton street. . . . .	1904				*					.565	.023
Batterymarch street . . . . .	Milk street to Liberty square. . . . .	1896	.196	.319	.043	.067	.167	.119	.132	.050		
Beacon street . . . . .	Charles street to Arlington street. . . . .	1901								.439	.266	
Beacon street . . . . .	Charles street to Brimmer street. . . . .	1891	.192		.053							

Beacon street.....	Dartmouth street to Hereford street....	1909	.....	.....	*	.018	.024	.018	.045	.136	.059
Beacon street.....	Hereford street to Massachusetts avenue	1907	.....	.....	.....	.....	.....	*	.106	.424	.054
Bennett street.....	Ash street to Harrison avenue.....	1905	.....	.....	.....	*	.479	.090	.....	.163	.805
Berkeley street.....	Boylston street to 155 south of Boylston street..	1902	.....	*	.128	.032	.....	.....	.....	.....	1.647
Blue Hill avenue.....	Dewey street to north side Savin street,	1917	.....	.....	.....	.....	.....	.....	.....	+	.....
Bolton street.....	C street to D street.....	1905	.....	.....	.....	*	.....	.....	.....	.037	.....
Bond street.....	Hanson street to Milford street.....	1895	.030	.049	.010	.082	.....	.013	.....	.008	.....
Boylston street.....	St. Cecilia street to Massachusetts avenue.	1904	.....	.....	.....	*.189	.226	.292	.075	.....	.....
Brattle square.....	Brattle street to Elm street.....	1888-95	.067	.117	.087	.052	.337	.....	.....	.116	.194
Brimmer street.....	Beacon street to Pineknay street.....	1906	.....	.....	.....	.....	*	.202	.192	.341	.010
Bunker Hill street.....	at Tufts street.....	1897	.....	.....	.....	.064	.....	.....	.....	.....	.....
Cabot street.....	Tremont street to Ruggles street.....	1891	.178	.173	.018	.107	.030	.193	.161	.112	.003
Cabot street.....	Ruggles street Easterly side to Vernon street.	1892	.038	.107	.030	.042	.051	.020	.291	.173	.....
Cabot street.....	Easterly side Vernon street to Linden Park street.	1897	.058	.006	.030	.042	.005	.....	.133	.012	.....
Central street.....	Broad street to Kilby street.....	1911	.....	.....	.....	.....	.....	.....	.239	.....	.007
Chambers street.....	Green street across Poplar street.....	1902	.....	*	.....	.....	.033	.766	.019	.070	.177
Charles street.....	Southerly side Fruit street to Allen street.	1909	*.758	.731	.683	.508	†1.304	.428	.450	.669	.102
Cherry street.....	Shawmut avenue to Washington street,	1892	.034	.082	.....	.270	.099	.....	.028	.072	.....
Columbus avenue.....	134 feet south of Ferdinand street to B. & A. R. R.....	1904	.....	.....	.....	*	.157	.237	.206	.208	.264

## Cost of Sheet Asphalt Repairs, 1911-20.—Continued.

STREET.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Columbus avenue.....	B. & A. R. R. Bridge to northerly side Camden street.	1907	.....	.....	.....	.....	.....	.....	\$*0.295	\$0.258	\$0.149	\$0.326
Columbus avenue.....	Northerly side Camden street to 67 feet north of Station street.	1907	.....	.....	.....	.....	.....	.....	*.100	.143	.198	.168
Congress square.....	Congress street across Congress square.	1900	\$0.116	.....	\$0.051	\$0.013	\$0.711	.....	.....	.....	.....	.....
Cooper street.....	North Margin street to Endicott street.	1887	.361	\$0.426	.457	.329	1.232	\$0.592	.511	.197	.086	.231
Cooper street.....	Washington street North to east side of Endicott street.	1908	.....	.....	.....	.....	.....	.....	.....	*.004	.071	.175
Corey street.....	121 feet north of Moulton street to Moulton street.	1897	.247	.....	.194	.121	.220	.....	.....	1.158	.....	.....
Corning street.....	Washington street to Shawmut avenue.	1908	.....	.....	.....	.....	.....	.....	.....	*	.014	.....
Court square.....	East—South—West.....	(1904-13) 1914 }	.....	.....	.....	*	.....	.....	.....	.....	*.039	1.025
Court street.....	Washington street to Court square.....	1904	.....	.....	.027	*.233	.299	.290	.278	.449	.247	†
D street.....	West Fifth street to Gold street.....	1889	.284	.204	.211	.240	.770	.203	.....	.028	.005	.....
Dartmouth street.....	Huntington avenue to Royston street.....	1901	*.039	.008	.....	.011	.....	.276	.....	.047	.....	.008
Davis street.....	Washington street to Harrison avenue.	1892	.184	.680	.106	.130	.211	.208	.225	.145	.239	.426
Dearborn street.....	Albany street to 56 feet south of Albany street.	1918	.....	.....	.....	.....	.....	.....	.....	.....	.053	.....
Devonshire street.....	Milk street to Water street.....	1909	.056	.099	.459	.431	1.437	.291	.486	1.619	.616	.....
Devonshire street.....	Milk street to Franklin street.....	1905	.....	.....	.....	.....	*.426	.420	.507	.934	.101	.....
Dillon street.....	Lenox street to Sawyer street.....	1902	.....	*	.010	.....	.008	.....	.....	.....	.083	.....

Doane street.....	1881	.031	.224	.058	.034	.046	.....	.066	.129	.....	.032
E street.....	1892	.056	.075	.018	.229	.....	.....	.....	.....	.398	.....
E street.....	1904	.....	.....	.....	*.056	.....	.....	.....	.....	.611	.....
Edinboro street.....	1895	.377	†.229	.....	.....	.....	.....	.....	.....	.....	.009
Endicott street.....	1899	.177	.163	.278	.087	.027	.194	.174	.376	.355	.028
Eustis street.....	1906	.....	.....	.....	.....	.....	*	.....	.....	.252	.....
Exchange place.....	1903	.....	.....	*	.059	.099	.....	.027	.110	.108	.....
Hanover avenue.....	1892	.222	.209	.107	.012	.056	.299	.093	.....	.....	.....
Hanover street, west side	1907	.....	.....	.....	.....	.....	.....	*	1.358	.330	.025
Harris street.....	1904	.....	.....	.....	*	.....	.030	.021	.....	.....	.....
Harrison avenue.....	1899	.250	.189	.211	.320	.170	.113	.389	.456	.247	.226
Harrison avenue.....	1901	*.231	.327	.150	.305	.886	.253	.....	†	.051	.067
Harrison avenue.....	1905	.....	.....	.....	.....	*.994	.....	.....	†	.....	.....
Harrison avenue.....	1903	.....	.....	*.193	.060	.657	.181	.275	.066	.200	.038
Harrison avenue.....	1909	.....	.....	.....	*	.262	.141	.168	.508	.111	.031
Harrison avenue.....	1895	.258	.378	.081	.132	.714	.169	.153	.293	.025	.308
Harrison avenue.....	1888	.....	.080	.216	.352	.336	.602	.....	.....	.025	.688
Hawes street.....	1904	.....	.....	.....	*	.050	.089	.....	.162	.019	.....
Hayward place.....	1913	.....	.....	.....	.....	.....	.....	.....	*.848	.015	.....

## Cost of Sheet Asphalt Repairs, 1911-20.—Continued.

STREETS.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Hollis street.....	Tremont street to Washington street..	1891	\$0.295	\$0.072	\$0.080	\$0.055	.....	\$0.144	\$0.335	†	\$0.009	\$0.031
Hudson street.....	Beach street to Curve street.....	1891	.358	.224	.188	.305	\$0.218	.142	.....	\$0.017	.019	.043
Huntington avenue.....	Boylston street, across Dartmouth street.	1901	*.037	.033	.007	.012	.027	.054	.....	.129	.101	.030
Huntington avenue.....	Bridge over Boston & Albany Railroad to 70 feet south of bridge.	1909	.....	.....	.....	*	.050	.....	.....	.369	.....	.....
Huntington avenue, west side.	685 feet north of West Newton street to 38 feet north of West Newton street.	1907	.....	.....	.....	.....	.....	.....	*	.437	.200	.022
I street.....	East Broadway to East Fourth street..	1910	.....	.....	.001	.003	.....	.....	.....	.....	.....	.....
Joiner street.....	Park street to Chelsea street.....	1906	.....	.....	.....	.....	.....	*.310	.661	.500	.....	.229
K street.....	East Fourth street to East Sixth street	1906	.....	.....	.....	.....	.....	*	.....	.....	.188	.096
Kent street.....	Roxbury street to Vernon street.....	1911	.....	.....	.....	.....	.....	*	.....	.152	.....	.....
Kilby street.....	Milk street to Central street, including Liberty square.	1898	.045	.028	.012	.019	.558	.057	.134	.446	†	.....
Kilby street.....	Central street to State street.....	1904	.....	.....	.....	*.293	†	.....	.094	.368	†	.....
Kington street.....	Beach street to Essex street.....	1910	.....	.....	.....	.....	*.316	.341	.400	.291	.050	.244
Kirkland street.....	Pleasant street toward Corning street..	1909	.....	.....	.....	*	.....	.....	.....	.....	.018	.....
Laconia street.....	Washington street to Harrison avenue..	1917	.013	.117	.048	.075	.059	.065	†	.....	.021	.048
La Grange street.....	Tremont street to Washington street....	1897	.216	.147	.333	.056	.502	.081	.613	.....	.218	.039
Lincoln place.....	Worcester street to West Springfield street.	1897	.242	.....	.....	.....	.....	.....	.....	.937	.....	.....
Lovering street.....	Washington street to Harrison avenue.	1913	.....	.....	.....	*	.....	.....	.....	*	.153	.....

Lynn street.....	Cooper street to Thacher street.....	1906								*	.140				.071
Malcolm street.....	54 feet south of Mt. Vernon street to Chestnut street.	1892			.666					.086				1.039	
Malden street.....	Washington street to Harrison avenue,	1902			.034	.026				.079	.137	.082		.028	.079
Mason street.....	449 feet south of West street to 545 feet south of West street.	1909	.113	.193	.190	.032			.527	.014					
Mason street.....	West street to Tremont street.....										.226	.261		.113	1.095
Massachusetts avenue...	Washington street to Shawmut avenue (south roadway).	1910						*		.006	.085	.019		.025	.014
Massachusetts avenue...	Shawmut avenue to Tremont street (south roadway).	1910						*		.004	.034	.006		.026	.005
Massachusetts avenue...	Tremont street to Columbus avenue (south roadway).	1910						*		.003	.062	.148		.861	.028
Massachusetts avenue...	Boylston street to Boston & Albany Railroad Bridge.	1909						.633		.105	.058	.881		.087	
Massachusetts avenue...	Bridge over Boston & Albany Railroad to 47 feet north of Newbury street.	1914													.011
Morton street.....	Endicott street to 84 feet easterly.....	1906								*				†	
Moulton street.....	Corey street to Vine street.....	1897	.030		.043	.034		.200				.719			
Moulton street.....	Vine street to Bunker Hill street.....	1897	.095		.044	.029		.099							
Norman street.....	Green street to South Margin street.....	1905						*.391			.161				.454
Northampton street.....	Washington street to Shawmut avenue,	1905						*		.446	.069	.520			.559
North Bennet street.....	Hanover street to Salem street.....	1904					*.018				.255	.003	.406		.109
North Margin street.....	Sillman street to Thacher street.....	1895	.142	.085	.105	.045		.090		.111	.120	.010	.174		.140
Palmer street.....	121 feet east of Winslow street to 203 feet west of Eustis street.	1906								*		.709		.092	

## Cost of Sheet Asphalt Repairs, 1911-20.—Continued.

STREETS.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Parkman street.....	North Anderson street, across Blossom street.	1898	\$0.032	\$0.013	\$0.058	\$0.069	\$0.623	.....	\$0.087	\$0.039	\$0.829	\$0.256
Parmenter street.....	Hanover street to Salem street.....	1902	.....	* .006	.213	.154	.531	\$0.264	.346	.230	.173	.121
Parnell street.....	Lenox street to Sawyer street.....	1902	.....	*	.....	.....	.008	.....	.....	.....	.003	.....
Pelham street.....	Washington street to Shawmut avenue..	1897-1917	.028	.193	.105	.290	.145	.....	†	.....	.....	.024
Pinckney street.....	Charles street, across Brimmer street..	1895	.172	.036	.056	.096	.175	.040	.123	.180	.127	.175
Pine street.....	Washington street to Harrison avenue..	1896	.052	.142	.031	.....	.077	.262	.037	.....	.478	.016
River street.....	Beacon street to Mt. Vernon street.....	1912	.....	.....	.....	.....	.....	.....	*	.075	.....	.033
Rochester street.....	Harrison avenue to Albany street.....	1914	.....	.....	.....	.....	.....	.....	.....	.....	*.004	.030
Rogers street.....	Dorchester street to Preble street.....	1891	.....	.....	.....	.068	.....	.....	.....	.....	.....	.....
Roxbury street.....	Guild row to Washington street.....	1904	.....	.....	.....	*.024	.117	.....	.144	.....	.438	.....
Ruggles street.....	Shawmut avenue to Cabot street.....	1907	.....	.....	.....	.....	.....	.....	*	.483	.164	.064
Salutation street.....	Hanover street to Commercial street..	1905	.....	.....	.....	.....	*	.....	.....	.....	.345	.....
Shawmut avenue.....	132 feet south of Castle street, across Cherry street.	1915	.....	.....	.....	.....	.....	.002	.007	.022	.067	.046
South Margin street.....	Stanford street, across Norman street,	1905	.....	.....	.....	.....	*.374	.....	.417	.....	.....	.242
Stoddard street.....	Howard street to Court street.....	1892	.127	.023	.076	.066	.....	.543	.....	.....	.....	.388
Temple place.....	Washington street to Tremont street...	1900	.154	.086	.183	.268	.504	.025	.341	.313	.131	.036
Thacher street.....	Washington street North to Endicott street.	1892	.267	†.127	.453	.093	.469	.214	†	.....	.081	.052
Tilston street.....	Hanover street across Unity street.....	1905	.....	.....	.....	.....	*	.....	.103	.108	.232	.....



Tilston street.....	{1895}	.640	.385	.206	.057	.243	.103	.108	.200	.571
Trinity place.....	{1900}			.136	.004	.069		.003	.060	
Tufts street.....	1897	.154		.035	.042			.210		.025
Union Park street.....										
Unity street.....	1897	.030	.390	.071	.078	.249	.284	.100	.286	.139
Vernon street.....	1907							*	.301	.012
Vine street.....	1897	.039		.049	.010			.046		.047
Warren street.....	1917						†	.350	1.055	.528
Warrenton street.....	{1884}	.031	.039	.256	.063	.329	.049	.244	.007	.032
Warrenton street.....	{1891}									
Washington street.....	1891	.094	.008	.168	.125	.030	.025	.138	.003	
Washington street.....	1904				*					.019
Washington Street North,	1899	.039	.154	.164	.068	.405	.246	.005	.282	.612
Water street.....	1902		*	.014	.026	.155		.003		.008
Water street.....	1896	.213	.070	.060	.017		.051	.009	.009	
West Sixth street.....	1905					*	.084		.247	
West Third street.....	1892	.002	.016		.067	.174	.020		.185	
Wheeler street.....	1909				*		.022		.099	
Wiget street.....	1897	.342	.159	.029	.066	.010	.506	.070	1.019	
Wiggin street.....	1905					*		.091	.062	.393

\* Guaranty expired.

† Repaved.

‡ Part repaved.

## Sheet Asphalt.

With  $1\frac{1}{2}$ -Inch Wearing Surface and  $1\frac{3}{4}$ -Inch Binder on a Granite Block, Cobble, or Macadam Base.

STREETS.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Allen street.....	Charles street to Blossom street.....	1917	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0.025
Batterymarch street.....	Milk street to 93 feet west of Broad street.	1909	.....	.....	.....	*	\$0.005	\$0.131	\$0.089	\$0.047	\$0.030	.045
Blue Hill avenue.....	Dewey street to north side of Savin street.	{ 1906 } { 1908 }	.....	.....	.....	.....	.....	*	†	.....	†	.....
Brighton street.....	Leverett street to Allen street.....	1892	\$0.315	\$0.327	\$0.271	\$0.123	.341	.214	.298	.010	.378	.390
Chambers street.....	Charles street to Brighton street.....	1895	.115	.116	.154	.131	.361	.006	.083	.....	.100	.286
Charter street.....	Hanover street across Unity street.....	1894	.273	.388	.255	.145	.628	.222	.079	.087	.456	.252
Clark street.....	Hanover street to North street.....	1892	.248	.223	.207	.219	.352	.391	.229	.466	.422	.079
Groton street.....	Washington street to Shawmut avenue..	1892	.041	.079	.031	.061	.144	.194	.360	.191	.088	.....
Moon street.....	North square to Lewis street.....	1891	.189	.248	.073	.071	.....	.132	.....	1.131	.....	.....
Oxford street.....	Beach street to Essex street.....	1895	.227	.247	.182	.088	.248	.013	†	.....	.008	.....
Parker street.....	Caldwell street to Ward street.....	1917	.....	.....	.....	.....	.....	.....	.....	.....	.131	.....
Poplar street.....	Chambers street to Charles street.....	{ 1887 } { 1892 }	.144	.172	.102	.109	.382	.157	.236	.014	.400	.344
Rose street.....	Harrison avenue to Albany street.....	1917	.....	.....	.....	.....	.....	.....	.....	.....	.040	.737
Smith street.....	St. Alphonsus street to Phillips street...	1904	.....	.....	.....	*.040	.....	.....	†	.....	.....	.012
Spring street.....	Poplar street to Leverett street.....	1895	.333	.160	.183	.128	.454	.422	.093	.066	.582	.677
Sun Court street.....	North square to Moon street.....	{ 1891 } { 1892 }	.245	.190	.119	.043	.....	.139	.....	1.150	.071	.....
Stillman street.....	Endicott street across Norman street....	1895	.035	.041	.286	.157	.061	.159	.033	1.648	.179	.....
Tyler street.....	Beach street to Harvard street and Oak street to Curvestreet.	1917	.....	.....	.....	.....	.....	.....	†	.026	.034	.019

\* Guaranty expired.

† Repaved.

† Part repaved.

## Rock Asphalt.

*With 2-Inch Wearing Surface on a Cement Concrete Base.*

STREET.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Acton street.	Washington street to Bradford street.	1896	\$0.021	\$0.241	\$0.037	\$0.037	\$0.036				\$0.170	
Arch street.	Summer street to Franklin street.	1901	*.011	.028	.005	.207	†					
Athens street.	West Second street to A street.	1895		.102		.031	.036				.061	
Athens street.	B street to C street.	1892		.039			.121				.034	
Athens street.	C street to D street.	1901	*	.172			.226				.033	
Avery street.	Mason street to Washington street.	1897	.261	.144		†						
Barton street.	Leverett street to Milton street.	1895	.134	.054	.084	.011	.661		\$0.099		.475	\$0.138
Beacon street.	Arlington street to Dartmouth street.	1901	*.161	.039	.072	.072	.058	\$0.041	.039	\$0.092	.228	.086
Bowen street.	C street to E street.	1901	*	.125	.002	.021	.115	.036			.048	
Bradford street.	Waltham street to Shawmut avenue.	1897	.005	.034	.011	.031	.033	.140			.007	
Cobb street.	Washington street to Shawmut avenue.	1897		.032		.024				.017	.031	
Decatur street.	Washington street to Harrison avenue.	1892	.404	.283	.187	.127	.064	.449	.519	.184	.223	.127
Dudley street, east side.	East side Dunmore street to Magazine street.	1902		*	.091	.114		.138			.488	
Dwight street.	Shawmut avenue to Tremont street.	1893	.012	.050	.280	.043	.001	.066	.008		.083	
Essex place.	Tufts street to Essex street.	1901	*.135	.057	.038	.141	.020	.367	.086	.297		.007
Exeter place.	Chauncy street to Harrison avenue.	1897	.043	.045	.025		.031	.052		.364		



Meridian street.....	1900	.243	.....	.169	.....	.....	.652	.....	.....	.....	1.080
Miller street.....	1901	*	.....	.231	.....	.....	.032	.....	.170	.....	.861
Milton street.....	1899	.052	.....	.058	.....	.....	.....	.053	.....	.054	.....
Motte street.....	1892-99	.150	.....	.059	.....	.138	.....	.175	.012	.403	.....
Mystic street.....	1895	.017	.006	.037	.072	.011	.....	.....	.....	.....	1.030
Newlund street.....	1902	.....	*	.....	.....	.061	.....	.....	.....	.....	.....
North Margin street.....	1897	.....	.....	.085	.021	.053	.....	.034	.132	.172	.153
Norwick street.....	1896	.....	.....	.....	.043	.024	.....	.008	.....	.....	.404
Ohio street.....	1896	.009	.254	.....	.119	.....	.....	.....	.....	.260	.....
Oswego street.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Otter street.....	1901	*	.016	.003	.015	.....	.....	.003	.....	.....	.....
Paul street.....	1897-99	.237	.054	.043	.082	.....	.....	.219	.347	.021	.021
Pelham street.....	1897	.028	.193	.105	.290	.145	.....	.....	.....	.....	.....
Pemberton square.....	1894	.029	.....	.....	.006	.....	.....	.....	.002	.032	.....
Prince street.....	1895	.812	.225	.409	.189	.314	.....	.298	.283	.307	.059
Ryan street.....	1896	.011	.....	.089	.039	.....	.....	.088	.....	.....	.590
Salem street.....	1901-13	*	.181	.045	.145	.304	.....	.408	.124	.241	.176
Shawmut avenue.....	1898	.325	.504	.114	.214	.....	.....	.....	.....	.....	.....
Silver street.....	1901	*	.193	.....	.017	.033	.....	.008	.....	.....	.190
Taylor street.....	1896	.012	.046	.024	.069	.....	.....	.061	.....	.031	.025
Tudor street.....	1901	*	.193	.....	.008	.....	.....	.....	.....	.....	.059

## Rock Asphalt.—Concluded.

STREETS.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Tufts street.....	Kingston street to South street.....	1901	*\$0.064	\$0.033	\$0.029	\$0.018	\$0.117	\$0.127	\$0.353	\$0.104	\$0.039	\$0.021
Tyler street.....	Oak street to Harvard street.....	1901	*,113	.180	.099	.102	.178	.279	.207	.422	.028	.482
Warren street.....	Winthrop street across Soley street.....	1901	*	.293	.543	.517	.663	.626	†	.....	.....	.....
Waterford street.....	Washington street to Shawmut avenue	1897	.184	.168	.....	.190	.....	.....	.....	.614	.248	.....
West Broadway.....	196 feet east of Dorchester avenue to A street.	1892	.366	.105	.271	.307	.559	.495	.656	.119	†	.....
West Broadway.....	150 feet west of F street to 267 feet east of F street.	1897	.117	.099	.059	.121	.145	.....	.....	.....	.408	.173
West Broadway.....	267 feet west of F street to 28 feet west of Dorchester street.	1898	.081	.022	.082	.132	.021	.319	.117	.....	.283	.....
Whitmore street.....	Kneeland street to Harvard street.....	1895	.....	.055	.035	.....	.....	.038	.....	.....	.300	.....

\* Guaranty expired.

† Repaved.

‡ Part repaved.

Summary of Table Showing the Cost of Asphalt Repairs, 1911-20.

YEAR.	Contract Awarded to	CONTRACT PRICES.			AREAS AND COSTS.			
		Asphalt Surface and Binder per Square Yard.	Concrete Base per Square Yard	Extra Binder per Cubic Yard.	Total Area Not Under Guaranty Maintained by the City. Square Yards.	Cost of Maintenance for Current Year.	Unit Area Repaired.	Unit Cost per Square Yard.
1911	Warren Brothers Company *	\$1 34	\$1 00	\$9 00	218,007	\$27,504 52	.0930	\$125
1912	Warren Brothers Company *	1 24	1 10	11 00	223,848	26,397 97	.0933	118
1913	Warren Brothers Company *	1 37	1 15	11 00	226,837	22,839 01	.0729	101
1914	Central Construction Company *	1 19	1 00	11 00	237,204	23,384 52	.0821	.099
1915	Central Construction Company *	1 06	1 00	11 00	238,545	40,633 82	.1550	170
1916	Central Construction Company *	1 16	2 50	4 00	280,268	25,941 25	.0796	.093
1917	Central Construction Company *	1 37	2 50	12 00	299,822	29,883 29	.0729	102
1917	Warren Brothers Company †					838 44		
1918	The Bermudez Company *	1 38	3 50	12 00	312,523	50,198 58	.1080	161
1919	Central Construction Company *	1 83	2 00	8 00	312,816	40,147 81	.0700	128
1920	The Bermudez Company *	2 20	3 50	14 00	340,713	39,275 77	.0489	115

\* Advertised and awarded to lowest bidder.

† By agreement.







Two-inch Bituminous Concrete Wearing Surface on a Crushed Stone, Macadam or Granite Block Base.

STREETS.	Limits.	Year Laid.	1911.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Allen street.....	Blossom street to Chambers street.....	1905	.....	.....	.....	.....	*	.....	\$0.017	.....	\$0.253	\$0.020
Ashburton place.....	Rowdoin street to Somerset street.....	1904-11	.....	.....	.....	*	.....	.....	.023	.....	.....	.....
Belvidere street.....	West Newton street to Massachusetts avenue.	1903	.....	*\$0.078	\$0.034	\$0.768	\$0.768	.....	.004	.....	.011	.061
Berkeley street.....	Trenont street to Columbus avenue...	1906	.....	.....	.....	.....	.....	*	.....	.....	.....	.173
Berkeley street.....	Boylston street to Beacon street.....	1903	.....	.....	*.005	.001	.005	.....	.025	\$0.365	.328	.222
Blue Hill avenue.....	Brunswick street to north side of Devon street.	1906	.....	.....	.....	.....	.....	*	.....	.....	1.268	.....
Rowdoin street.....	Ashburton place to Cambridge street...	1902	.....	*	.164	.075	.219	.....	.016	.....	.....	.090
Rowen street.....	E street to F street.....	1903	.....	.....	*	.....	.....	.....	.....	.....	.023	.....
Boylston street.....	Massachusetts avenue across Hemen- way street.	1905	.....	.....	.....	.....	*	.....	.654	.370	.299	.429
Clarendon street.....	Boylston street to Beacon street.....	1905	.....	.....	.....	.....	*.011	.....	.003	.....	.....	.192
Dartmouth street.....	Newbury street to Beacon street.....	1903	.....	.....	*	.001	.049	.....	.....	.....	.....	.016
Dearborn street.....	Albany street to 56 southerly.....	1918	.....	.....	.....	.....	.....	.....	.....	.....	.053	.....
Emerald street.....	Castle street to Dover street.....	1904	.....	.....	.....	*.004	.005	.....	.....	.178	.....	.015
Gainsborough street.....	Huntington avenue to Providence Divi- sion N. Y. N. H. & H. R. R.....	1903	.....	.....	*	.032	.....	.....	.....	1.067	.....	.....
Garden Court street.....	North Square to Fleet street.....	1906	.....	.....	.....	.....	.....	*	.090	.....	.611	.....
Hancock street.....	Mt. Vernon street to Cambridge street...	1902	.....	*	.009	.027	.167	.....	.001	.....	.....	.012
Harrison avenue.....	East Springfield street to Northampton street.	1905	.....	.....	.....	.....	*	\$0.279	.779	.253	.420	.215

Huntington avenue.....	Dartmouth street to 84 feet north of B. & A. R. R. bridge.	1906	.....	.....	.....	*	.042	.286	.307	.061
McLean street.....	Blossom street to Chambers street.....	1905	.....	.....	.....	*	.025	.....	.532	.019
Massachusetts avenue.....	Columbus avenue to Huntington avenue.	1903	.....	*.094	.092	.834	.051	.269	1.488	.070
Massachusetts avenue.....	Beacon street to Harvard Bridge.....	1902	.....	*.300	.127	.843	.017	.136	.....	.250
Maverick street.....	London street to Havre street.....	1903	.....	*.013	.....	.....	.023	.....	.....	.292
Moon street.....	Lewis street to Fleet street.....	1906	.....	.....	.....	.....	*.072	.....	.....	.....
North square.....	North street to Moon street.....	1906	.....	.....	.....	.....	*.054	.046	.433	.....
Onida street.....	Harrison avenue to Albany street.....	1903	.....	*	.005	.038	.127	.003	.282	.007
Prince street.....	Garden Court street to Hanover street..	1906	.....	.....	.....	.....	*.272	.....	1.025	.....
Roxbury street.....	Shawmut avenue to Kent street.....	1904	.....	.....	*.005	.....	.442	.....	.005	.252
St. Alphonsus street.....	Tremont street to Smith street.....	1905	.....	.....	.....	*	.091	.....	.007	.379
Smith street.....	St. Alphonsus street to Phillips street...	1904	.....	.....	*.040	.....	†	.....	.009	.067
Tremont street.....	St. Alphonsus street to Phillips street...	1902	.....	*.042	.018	.....	.337	.....	.....	.....
West Broadway.....	28 feet west of Dorchester street to Dorchester street.	1905	.....	.....	.....	*	.....	.....	1.085	.....
West Newton street.....	Columbus avenue to Huntington avenue	1903	.....	*.014	.062	.098	†	.....	.....	.001
West Newton street.....	Huntington avenue to Belvidere street..	1903	.....	*.014	.046	.653	.....	.....	.....	.....
West Newton street.....	Tremont street to Columbus avenue.....	1904	.....	.....	*.003	.100	.....	.376	.004	.075

\* Guaranty expired.

† Repaved.

‡ Part repaved.

Summary of Table Showing Cost of Bituminous Concrete Repairs, 1913-20.

Year.	Contract Awarded to	CONTRACT PRICES.					AREAS AND COST.			
		Bituminous Concrete Full Depth Patches per Square Yard.	Bituminous Concrete Surface Patches per Square Yard.	Concrete Base per Square Yard.	Extra Binder per Cubic Yard.	Flush Coat per Square Yard.	Total Area Not Under Guaranty Maintained by the City. Square Yards.	Cost of Maintenance for Current Year.	Unit Area Repaired.	Unit Cost per Square Yard.
1913.....	Warren Brothers Co.*.....	\$1 37	†\$0 80	\$1 15	\$11 00	.....	40,888	\$1,625 60	.0309	\$0.040
1914.....	Central Construction Co.*.....	1 09	52	1 00	11 00	†\$0.07	62,315	1,417 89	.0531	.023
1915.....	Central Construction Co.*.....	1 06	50	1 00	11 00	†.07	83,473	10,396 54	.1685	.125
1916.....	Central Construction Co.*.....	1 11	50	2 50	4 00	.....	98,298	1,666 65	.0129	.018
1917.....	Central Construction Co.*.....	1 37	77	2 50	12 00	.....	103,973	{ 1,335 99 }	.0304	.036
1917.....	Warren Brothers Co.†.....							{ 2,382 04 }		
1918.....	The Bernudez Co.*.....	1 38	60	3 50	12 00	.....	122,814	16,214 76	.1007	.132
1919.....	Central Construction Co.*.....	1 83	1 20	2 00	8 00	.....	190,150	{ 13,767 77 }	.0469	.079
1919.....	Warren Brothers Co.†.....	1 85	.....	.....	.....	.....		{ 1,220 47 }		
1920.....	The Bernudez Co.*.....	2 20	1 62	3 50	14 00	†.20	227,457	14,334 27	.0288	.063

\*Advertised and awarded to lowest bidder.

† By agreement.

## APPENDIX D.

REPORT OF THE DIVISION ENGINEER OF  
THE SEWER AND SANITARY DIVISION.

BOSTON, February 1, 1921.

*To the Commissioner of Public Works:*

I submit herewith a statement of the activities, operations and expenditures of the various services of the Sewer and Sanitary Division for the year ending January 31, 1921.

The maintenance expenditures of the Sewer and Sanitary Division for the year were as follows:

Sewer Service . . . . .	\$616,461 55
Sanitary Service . . . . .	1,508,102 71
Street Cleaning and Oiling Service . . . . .	983,597 25
	<u>\$3,108,161 51</u>

## SEWER SERVICE.

During the year 1920-21 there were built throughout the city 8.06 miles of sanitary sewers and surface drains.

In city proper the work consisted principally of rebuilding old broken down sewers unfit for further use, such as North Anderson street, Bridge court, Oswego street and Unity court.

In Roxbury, a start was made on the rebuilding of the old wooden drain known as Muddy river conduit in Brookline avenue. This old wooden conduit had been reported upon many times as being structurally unsafe and in fact collapsed for a length of about 100 feet, thereby hastening the work of rebuilding.

In the West Roxbury district, a section of main Stony brook channel was started and sewerage works in anticipation of permanent pavements were built in

Hinsdale road, Centre street, Castleton street, Zamora street and Washington street.

In Brighton, the building of a sanitary sewer in private land off Lake street to provide drainage for a large territory in Newton, which formerly drained on the surface of the ground, will abate a long standing nuisance.

In the Charlestown district, a sanitary sewer was built in Chelsea street, between Foss and Wapping streets.

In East Boston, the extension of the Lubec street outlet to tide water was completed.

In South Boston, Farragut road overflow was extended to deep water.

In the Hyde Park section, sewerage works were built in Bradlee street, Thatcher street, Huntington avenue and in Kennebec street.

In Dorchester, sewers were built in Tenean street, Wilcock street, Havelock street, Itasca street, Wilbur street and Wollaston terrace.

There were 6,824 catch-basins cleaned throughout the city and 27,010 cubic yards of material removed from same.

On October 31, 1920, our No. 5 engine at Calf Pasture station broke down and repairs are now being made under contract with the Simpson's Patent Dry Dock Company. New condensers and pumps have been installed on No. 3 and No. 4 engines.

#### *Principal Works Recommended for Coming Year.*

*West Roxbury.*—Roslindale branch of Stony brook, from Forest Hills Playground to Lindall street; Grove street, from Washington street to Centre street; Washington street (Germantown outlet), between the Metropolitan sewer in Dedham street and Rockland street; Washington street, from Corinth street to Metropolitan parkway near LaGrange street.

*Brighton.*—Cleveland circle, from Beacon street to the Brookline line; Salt creek outlet, under Boston & Albany Railroad tracks, near Ashford street; Western avenue and Everett street, between Telford street and Adams street.

*City Proper.*—Clinton street, between Commercial street and Atlantic avenue; Mt. Vernon street, from Charles street to Charles River Esplanade; Chatham street, from Commercial street to Merchants row.

*Dorchester.*— Whitten street, easterly, from Dorchester avenue about 1,000 feet; Dorchester brook, in Norfolk avenue to Wendover street; Davenport brook extension, about 500 feet easterly; Auckland street, from Freeport street brook to Savin Hill avenue, to remove flooding on Dorchester avenue.

*Calf Pasture Pumping Station.*— The question of a new boiler plant and new pumping units should be carefully investigated during the coming year, as the present equipment is fast becoming obsolete.

### SANITARY SERVICE.

Owing to the unprecedented fall of snow during the first two months of the year, the collections of ashes, rubbish and garbage throughout the city were almost entirely suspended for that period, as all available equipment was employed on the removal of snow to allow the moving of food and coal. This situation although unusual in Boston was taken care of as soon as traffic conditions became normal. Ninety-seven new horses were bought to replace old ones and those that had died, and 112 teamsters-laborers were appointed from the civil service list, thereby placing the Sanitary Service in a position to give far better results as to the number of collections in the day labor districts.

In the Dorchester, East Boston, Hyde Park, Brighton and West Roxbury districts, known as the contract districts, a decided improvement was noticed as to collections in these districts, but I am still of the opinion that this contract system should be replaced gradually with day labor forces, as in the majority of cities throughout the United States the collection of waste is performed by the municipality.

### STREET CLEANING AND OILING SERVICE.

The question of municipal cleanliness is fast becoming an important factor in the minds of all good citizens and with clean streets comes a certain civic pride and improved health conditions that will amply repay the people for any money expended in this direction.

The work performed by the forces of the Street Cleaning Service during the unusual snow fall period was of great importance in cleaning the streets for business.

The use of a heavy asphaltic road oil during the past year as a dust layer has again proven its great value in preserving the surface of our macadam streets. The flushing and sprinkling of streets with motor and electric car flushers has in a great measure reduced the number of complaints relative to the dust nuisance from our old granite streets.

Yours respectfully,

E. F. MURPHY,

*Division Engineer, Sewer and Sanitary Division.*



## SEWER SERVICE.

The work of the service is carried on under chapters 28 and 40, Revised Ordinances of 1914, and the following statutes:

Chapter 426, 1897, as amended by 450, 1899, and 268, 1903.  
 Chapter 383, 1903, as amended by 464, 1907.  
 Chapter 550, 1907.  
 Chapter 204, 1908.  
 Chapter 514, 1908.  
 Chapter 74, Special Acts of 1918.

## THE DUTIES OF THE SEWER SERVICE.

1. Preparation of plans for sewerage works.
2. Construction and maintenance of all drainage works.
3. Investigation of complaints with regard to defective drainage.
4. The granting of permits for sewer construction.
5. The preparation of plans for the assessment of the cost of sewer construction.
6. The examination of the plans of other corporations proposing to construct works in public streets with reference to their probable interference with sewerage works.

---

Total number of employees on pay roll January 31, 1920	359
Total number of employees on pay roll January 31, 1921	333
Total amount of weekly pay roll January 31, 1920	\$9,341 09
Total amount of weekly pay roll January 31, 1921	\$9,581 49
Total amount of monthly pay roll January 31, 1920	\$641 66
Total amount of monthly pay roll January 31, 1921	\$416 00
Total amount of monthly pension rolls January 31, 1920:	
Veterans . . . . .	\$510 88
Laborers . . . . .	\$708 16

Total amount of monthly pension rolls January  
31, 1921:

Veterans . . . . .	\$501 80
Laborers . . . . .	\$571 13

Average weekly pay roll, including monthly roll  
and exclusive of pension rolls, for fiscal year,  
charged as follows:

Maintenance . . . . .	*\$6,405 32
Sewerage Works . . . . .	\$3,590 06
Average number of men employed . . . . .	338

Number of men on pension rolls January 31, 1920:

Veterans . . . . .	11
Laborers . . . . .	24

Number of men on pension roll January 31, 1921:

Veterans . . . . .	11
Laborers . . . . .	19

Average number of horses maintained by the  
service during the year . . . . .

27

Rate of wages paid to common laborers . . . . .	\$3.50
(From April 2, 1920) . . . . .	\$4.00

\*Includes amount charged to:

Paving Service . . . . .	\$2,905 98
Sanitary Service . . . . .	2,880 25
Water Service . . . . .	1,045 77
Highways, Making of . . . . .	13 97
High Pressure Fire Service . . . . .	83 83
Hyde Park avenue, Widening . . . . .	351 02

## Financial Statement from February 1, 1920, to January 31, 1921.

Object.	Balances on Hand, February 1, 1920.	Appropriations, Loans and Transfers.	Transfers to.	Transfers from.	Total Credits.	Expenditures during the Year.	Balances on Hand, January 31, 1921.
Sewer Service.....	.....	\$534,814 74	\$86,182 88	\$4,055 55	\$616,942 07	\$616,461 55	\$480 52
Sewerage works.....	\$343,661 21	800,000 00	.....	.....	1,143,661 21	848,045 50	235,615 71
Separate system of drainage....	14 22	.....	.....	.....	14 22	14 22	
Old Harbor improvement.....	.....	100,000 00	.....	.....	100,000 00	9,966 17	90,033 83
Totals.....	\$343,675 43	\$1,434,814 74	\$86,182 88	\$4,055 55	\$1,860,617 50	\$1,474,487 44	\$386,130 06

MAINTENANCE EXPENDITURES FEBRUARY 1, 1920, TO  
JANUARY 31, 1921.

SEWER SERVICE.

*Improved Sewerage.*

Pumping Station, Calf Pasture, inside . . .	\$190,041 04	
Pumping Station, Calf Pasture, outside . . .	25,586 17	
Pumping Station, Calf Pasture, engines . . .	43,951 90	
Pumping Station, Calf Pasture, boilers . . .	35,872 82	
Pumping Station, Union Park street . . .	7,515 82	
Pumping Station, Summer street . . .	1,306 53	
Pumping Station, Hyde Park . . .	1,108 70	
		\$305,382 98
Moon Island . . .		18,587 44
Main and intercepting sewers . . .		13,157 56
		<u>\$337,127 98</u>

*Stony Brook.*

Maintenance . . .	4,001 67
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*Miscellaneous Maintenance Charges.*

Cleaning catch-basins . . .		92,365 17
Yards and lockers . . .		727 55
Employed at yards . . .		21,486 17
Horses, carts, harnesses, etc. . .	\$19,127 37	
Teaming . . .	17,627 95	
		<u>\$36,755 32</u>
Less amount earned by service teams . . .	31,999 84	
		4,755 48
Automobiles . . .		10,690 24
Cleaning sewers . . .		30,738 49
Office salaries . . .		17,061 08
Office expense . . .		2,783 42
Repairing department buildings . . .	\$572 83	
Repairing catch-basins, South Boston . . .	1,803 92	
Repairing catch-basins, East Boston . . .	3,191 45	
Repairing catch-basins, Charlestown . . .	1,279 06	
Repairing catch-basins, Brighton . . .	1,595 38	
Repairing catch-basins, West Roxbury . . .	1,782 72	
Repairing catch-basins, Dorchester . . .	4,948 67	
Repairing catch-basins, Hyde Park . . .	967 97	
Repairing catch-basins, Roxbury . . .	2,109 68	
Repairing catch-basins, City Proper . . .	5,429 59	
Repairing sewers, South Boston . . .	1,065 93	
Repairing sewers, East Boston . . .	886 95	
Repairing sewers, Charlestown . . .	586 55	
Repairing sewers, Brighton . . .	897 00	
Repairing sewers, West Roxbury . . .	4,844 50	
Repairing sewers, Dorchester . . .	2,599 56	
Repairing sewers, Hyde Park . . .	564 11	
Repairing sewers, Roxbury . . .	1,371 08	
Repairing sewers, City Proper . . .	2,968 28	
		<u>39,465 23</u>
Pension roll (veterans) . . .		6,203 80
Pension roll (laborers) . . .		6,940 65
		<u>\$574,346 93</u>
Carried forward . . .		

<i>Brought forward</i>	\$571,316 93
Annuities	651 00
Fuel and oil	2,914 05
Hardware, tools, etc.	2,883 59
Engines and boilers	233 79
Sundries and miscellaneous charges	27,348 31
Telephones	428 23
House connections	7,869 62
Rubber goods	763 78
Gatehouses, Fenway	4,896 86
Stock	8,739 69
	<hr/>
	\$631,075 85

*Credit.*

Stock transferred and used on construction	\$12,169 65
Fuel and oil transferred and used on construction	1,713 65
Hardware, tools, etc., transferred and used on construction	43 00
Engines and boilers transferred and used on construction	688 00
	<hr/>
	14,614 30
	<hr/>
	\$616,461 55

*Charges to Various Parties for Property Sold, Work Done and Material Furnished.*

John F. Lynch	\$440 00
Public Buildings Department	16 26
Jamaica Pond Garage	15 13
James L. Pierce	1,214 42
Boston Elevated Railway Company	622 71
Fred T. Ley Company	10 25
Boston Rendering Company	7 00
Mary L. Prout	6 75
J. Donnelly Sons	3 25
Victory Café	15 00
Julia A. Flynn	30 00
Augustine A. Bronzagne	15 00
M. A. Sullivan	15 00
T. J. Galvin	6 75
J. H. Horrigan	14 02
Supply Department	50 00
P. J. Doyle	10 00
Jennie M. Malley	8 46
J. F. Field	29 52
Edison Electric Illuminating Company	39 30
Metropolitan Water and Sewerage Board	5,869 36
George Glavin	7 50
William Barrett & Co.	44 25
Merchants Warehouse Company	37 50
George S. Monahan	11 38
M. Scanlon	7 50
John Holmes	10 00
Standard Steel Motor Car Company	7 50
E. Farrar	7 25
H. Lebowitz	7 50
S. Margolis	1 56
C. M. Callahan Company	59 79
	<hr/>
<i>Carried forward</i>	\$8,639 91

<i>Brought forward</i>	\$8,639 91
T. Dennehy	21 00
Musolino & Berger	2 50
H. W. Doane Company	1 25
New England Telephone and Telegraph Company	45 00
John Scala	2 20
J. J. O'Hare	16 72
M. A. Dierkes	15 00
Pearl L. Kelley	6 54
D. Mazarella	1 88
Kearns Construction Company	13 98
J. P. Perry	2 50
Perry & Tibbetts	1 25
W. F. Freeman	1 88
M. Pollock	15 00
M. Friedman	15 00
J. F. Murphy	16 32
C. J. Bowen	7 75
D. B. Chalitzky	7 75
Morse Brothers	15 00
T. F. Bowes	8 00
Charles Street Garage	14 25
Codman Square Garage	12 18
Charles L. Billups	9 75
Thomas Clark	1 25
James Misochi	7 75
	<hr/>
	<b>\$8,901 61</b>

*Amounts Collected by the City Collector for Sewer Service February 1, 1920,  
to January 31, 1921.*

Mary L. Prout	\$6 75
J. Donnelly Sons	3 25
Victory Cafe	15 00
Julia A. Flynn	30 00
August A. Bronzagne	15 00
M. A. Sullivan	15 00
T. J. Galvin	6 75
J. H. Horrigan	14 02
Supply Department	50 00
P. J. Doyle	10 00
Jennie M. Malley	8 46
J. F. Field	29 52
Edison Electric Illuminating Company	471 64
Metropolitan Water and Sewerage Board	5,869 36
John F. Lynch	240 00
George Glavin	7 50
M. Scanlon	7 50
William Barrett & Co.	44 25
Merchants Warehouse Company	37 50
George S. Monahan	11 38
John Holmes	10 00
J. J. Burke	6 75
J. E. Quinn	30 00
Wilson & Tomlinson	184 56
J. Mason Little, Trustee	220 07
Alice Colyer	76 06
Standard Street Motor Car Company	7 50
E. Farrar	7 25
H. Lebowitz	7 50
	<hr/>
<i>Carried forward</i>	<b>\$7,442 57</b>

<i>Brought forward</i>	\$7,412 57
S. Margolis	1 56
Quincy Market Cold Storage Company	615 50
C. M. Callahan Company	59 79
T. Dennehy	21 00
Musolino & Berger	2 50
H. W. Doane Company	1 25
New England Telephone & Telegraph Company	45 00
John Scala	2 20
J. J. O'Hare	16 72
M. A. Dierkes	15 00
Pearl L. Kelley	6 54
D. Mazarella	1 88
Kearns Construction Company	13 98
J. P. Perry & Co.	2 50
Berry & Tibbetts	1 25
W. F. Freeman	1 88
M. Pollock	15 00
M. Friedman	15 00
J. F. Murphy	16 32
C. J. Bowen	7 75
D. B. Chalitzky	7 75
Morse Brothers	15 00
T. F. Bowes	8 00
Charles Street Garage	14 25
Codman Square Garage	12 18
Charles L. Billups	9 75
Thomas Clark	1 25
James Misochi	7 75
	<hr/>
	<b>\$8,381 12</b>

## Sewer Service.—Maintenance Expenditures, Detail, 1920-21.

ACCOUNTS.	Total Expendi- ture.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.
Automobiles (6).....	\$10,490 24	\$6,798 07	.....	.....	.....	Repairs..... \$663 66 Equipment..... 1,438 12 Supplies..... 1,728 39 Fees..... 62 00 \$3,892 17
Cleaning catch-basins.....	92,365 17	38,055 91	\$4,840 12	\$331 44	\$48,732 08	Transportation, etc..... \$373 22 Advertising..... 32 40 405 62
Cleaning sewers.....	30,738 49	17,259 01	7,747 73	198 80	5,351 48	Advertising..... \$13 00 Dumping..... 46 00 Coal..... 122 47 181 47
Engines and boilers.....	233 79	113 61	27 75	.....	.....	Waste, etc..... \$23 73 Repairs and inspection..... 68 70 92 43
Employed at yards.....	21,486 17	21,486 17	.....	.....	.....	.....
Fuel and oil.....	2,914 05	.....	36 25	.....	.....	Coal..... \$1,003 92 Oil and gasoline..... 1,873 88 2,877 80
Hardware and tools.....	2,883 59	.....	31 49	.....	.....	Hose..... \$1,197 40 Hardware, repairs, etc.. 1,654 70 2,852 10
House connections.....	7,869 62	7,251 13	284 11	47 28	.....	Transportation, etc..... \$297 10 287 10



Horses, carts, harnesses, etc.	19,127 37	8,128 50	198 50	Fodder..... Stable goods and sup- plies..... Veterinary services.... Repairs, wagons and harnesses..... Shoeing..... Board.....	\$7,391 08 609 95 44 50 1,042 74 798 35 913 75	10,800 37	
Maintenance, Stony brook. Office expense.	4,001 07 2,783 42	3,546 27 24 00	324 75	130 65	Postage and printing... Stationery and sup- plies..... Miscellaneous.....	\$405 30 2,084 88 209 24	2,759 42
Office salaries.	17,061 08	17,061 08			76 pairs boots..... 35 coats..... 13 pairs mitts..... 29 hats.....	763 78	
Rubber goods.	763 78						
Stock..... Teaming..... Yard and locker.....	8,739 49 17,627 05 727 55	271 38 17,627 95 45 66	417 75	8,050 56 49 04	Gas and electricity..... Miscellaneous.....	\$429 92 202 93	632 58 428 23
Telephones.....	428 23						1,489 32
Back Bay Fens, gatehouses.	4,896 85	3,192 93	50 75	163 86	Electricity..... Repairs, etc.....	\$463 79 1,025 53	740 05
Miscellaneous, sundries.	27,348 31	24,819 51	1,377 25	411 50	Repairs, etc..... Transportation.....	\$485 59 254 46	
Repairing, department buildings.	572 83	292 55		280 28			
Repairing catch-basins, East Boston.....	1,803 92	1,213 05	159 25	431 62			
" " " " " "	3,191 45	1,930 30	630 65	640 50			
" " " " " "	1,279 06	635 21	156 01	487 84			
" " " " " "	1,595 38	716 85	261 11	617 42			



# Sewer Service.— Maintenance Expenditures, Detail, 1920-21.

ACCOUNTS.	Total Expenditures.	Labor.	Contracts.	Teaming.	Waste.	Coal and Wood.	Oil and Gasolene.	Packing.	Valves.	Transportation.	Stable.	Pipe Fittings and Miscellaneous.	Autos.
Pumping station, Calf Pasture:													
Inside.....	\$190,041 04	\$29,391 98			\$612 44	\$149,669 82	\$127 20					\$10,239 60	
Outside.....	25,586 17	19,636 87	\$695 81	\$253 50							\$1,711 10	1,977 83	\$1,311 06
Engines.....	43,951 90	33,459 85					3,123 16	\$1,069 07	\$302 99			5,996 83	
Boilers.....	35,872 82	26,373 07	4,330 00									5,169 75	
Moon Island.....	18,587 44	14,936 79			11 12	56 04	21 00			\$841 36	639 65	1,847 62	233 86
Main and intercepting sewers.....	13,157 56	9,276 19		2,852 87								899 27	129 23
Pumping stations:													
Union Park street.....	7,515 82	5,383 01		206 00		330 63						1,596 18	
Summer street.....	1,306 53	655 61										650 92	
Hyde Park.....	1,108 70	775 13								5 60		327 97	
Totals.....	\$337,127 98	\$139,888 50	\$5,025 81	\$3,312 37	\$623 56	\$150,056 49	\$3,271 36	\$1,069 07	\$302 99	\$846 96	\$2,350 75	\$28,705 97	\$1,674 15

## Recapitulation.— Maintenance Detail, 1920-21.

	Improved Sewerage.	Outside Improved Sewerage.	Totals.
Labor.....	\$139,888 50	\$199,394 92	\$339,283 42
Contracts.....	5,025 81	54,083 56	59,109 37
Teaming, hired and city.....	3,312 37	21,013 07	24,325 44
Waste.....	623 56	23 73	647 29
Fuel.....	150,056 49	1,126 39	151,182 88
Oil.....	3,271 36	1,873 88	5,145 24
Packing.....	1,069 07		1,069 07
Valves.....	302 99		302 99
Transportation, etc.....	846 96	914 78	1,761 74
Horses, etc.....	2,350 75	10,800 37	13,151 12
Towing.....			
Pipe fittings and miscellaneous.....	28,705 97		28,705 97
Telephone.....		428 23	428 23
Automobiles, repairs and supplies.....	1,674 15	3,892 17	5,566 32
Stock and miscellaneous supplies.....		32,396 61	32,396 61
	\$337,127 98	\$325,947 71	\$663,075 69
CREDITS.			
<i>Outside Improved Sewerage.</i>			
Miscellaneous.....	\$15,232 86		
Labor.....	19,211 63		
Stock.....	12,169 65		
		46,614 14	46,614 14
	\$337,127 98	\$279,333 57	\$616,461 55

## SUPPLIES, PUMPING STATION, CALF PASTURE.

3,264 pounds waste  $12\frac{1}{2}$  cents to 28 cents.  
 1,119 $\frac{7}{8}$  pounds packing, 36 cents to \$1.72.  
 3,938 gallons engine oil, 36 cents to 60 cents.  
 1,088 gallons cylinder oil,  $39\frac{1}{2}$  cents to 88 cents.  
 50 gallons sperm oil, \$2.  
 20 gallons Lard oil, \$2 to \$2.15.  
 3,366 pounds grease, 14 cents to 20 cents.  
 390 gallons kerosene, 16 cents to 25 cents.

## FUEL ENTIRE SERVICE.

10,172 tons bituminous coal . . . . . \$149,669 82  
 125 $1\frac{9}{10}$  tons Anthracite coal . . . . . 1,464 81  
 Wood . . . . . 48 25

## Coal at Pumping Station, Calf Pasture.

DATE.	Contractor.	Tons.	PAID IN 1920-21.	
			Per Ton.	Total.
1919.				
Dec. 16 ..	New England Coal and Coke Company,	1,003	{ \$7 91 † 376 }	\$7,556 60
1920.				
March 29 ..	New England Coal and Coke Company,	689	8 86	6,104 54
May 13 ..	Coastwise Coal Company.....	595	13 00	7,735 00
	John Donahue. Stevedoring.....			446 25
May 28 ..	Burton Furber Coal Company.....	270 <sup>13 10</sup> <sub>22 40</sub>	12 00	3,246 48
	Coastwise Coal Company. Lightering and Weighing.			219 14
	John Donahue. Stevedoring.....			203 25
June 12 ..	City Fuel Company.....	15 <sup>59 0</sup> <sub>20 00</sub>	13 25	202 66
	East Boston Coal Company.....	111 <sup>22 5</sup> <sub>20 00</sub>	13 25	153 87
June 16 ..	Coastwise Coal Company.....	515 <sup>11 50</sup> <sub>22 40</sub>	{ 13 50 * 06 }	6,990 36
	John Donahue. Stevedoring.....			386 25
June 28 ..	Coastwise Coal Company.....	416 <sup>2 13 0</sup> <sub>22 40</sub>	{ 13 50 * 06 }	5,653 86
	John Donahue. Stevedoring.....			312 00
July 1 ..	D. Doherty Company.....	61 <sup>7 00</sup> <sub>20 00</sub>	13 25	865 46
July 19 ..	New England Coal and Coke Company,	507 <sup>2 0</sup> <sub>22 40</sub>	16 35	8,289 60
	John Donahue. Stevedoring.....			377 25
July 23 ..	New England Coal and Coke Company,	475 <sup>14 00</sup> <sub>22 40</sub>	16 35	7,776 47
	John Donahue. Stevedoring.....			358 50
July 29 ..	New England Coal and Coke Company,	457 <sup>10 20</sup> <sub>22 40</sub>	16 35	7,479 40
	John Donahue. Stevedoring.....			345 00
July 21-31 ..	B. J. Keith. Weighing.....			86 51
Aug. 2 ..	D. Doherty Company.....	153 <sup>30 0</sup> <sub>20 00</sub>	16 50	2,525 25
Aug. 5 ..	New England Coal and Coke Company,	525 <sup>17 00</sup> <sub>22 40</sub>	16 35	8,596 16
	John Donahue. Stevedoring.....			396 00
	B. J. Keith. Weighing.....			31 72
Aug. 23-31 ..	East Boston Coal Company.....	223 <sup>14 50</sup> <sub>20 00</sub>	16 50	3,691 47
Sept. 3 ..	East Boston Coal Company.....	37 <sup>14 50</sup> <sub>20 00</sub>	16 50	623 29
Sept. 4-27 ..	East Boston Coal Company.....	97 <sup>12 5</sup> <sub>20 00</sub>	16 50	1,601 54
Sept. 28 ..	Coastwise Coal Company.....	288 <sup>43 0</sup> <sub>22 40</sub>	13 00	3,746 50
	Coastwise Coal Company. Extra Freight.			421 51
	Carried forward.....	6,314		\$86,421 89

\* Weighing.

† Penalty.

## Coal and Pumping Station, Calf Pasture.—Concluded.

DATE.	Contractor.	Tons.	PAID IN 1920-21.	
			Per Ton.	Total.
	<i>Brought forward</i> .....	6,344	.....	\$86,421 89
Sept. 28 ..	Coastwise Coal Company. Lightering and Weighing.	.....	.....	233 43
	John Donahue. Stevedoring.....	.....	.....	216 09
Oct. 4 ..	Northern Coal Company.....	1,672	{ \$15 00 * 06 }	25,180 32
	Northern Coal Company. Demurrage.....	.....	.....	318 71
	John Donahue. Stevedoring.....	.....	.....	1,337 60
Oct. 21 ..	Coastwise Coal Company.....	496 <sup>330</sup> <sub>2246</sub>	13 00	7,175 59
	Coastwise Coal Company. Lightering and Weighing.	.....	.....	401 88
	John Donahue. Stevedoring.....	.....	.....	396 80
Nov. 9 ..	Northern Coal Company.....	1,660	{ 16 00 * 06 }	26,659 60
	John Donahue. Stevedoring.....	.....	.....	1,328 00
	Totals.....	10,172	.....	\$149,669 82

\* Weighing.

## Catch-basins Cleaned by Contract, 1920-21.

District.	Contractor.	Start and Finish of Work.	Price per Cubic Yard.	Cubic Yards Excavated by Districts.	Contractor Received by District.	Total Basins Cleaned.	Total Drop Inlets Cleaned.	Average Cubic Yards per Basin.	Total Cost of Inspection.	Average Total Cost to City per Basin.
1. City proper.....	C. & R. Construction Company.	{Mar. 1, 1920 Jan. 31, 1921}	\$1 90	6,866 15	\$13,045 70	1,549	17	4 38	\$1,690 95	\$9 41
2. Back Bay, South End and Roxbury.....	C. & R. Construction Company.	{Mar. 1, 1920 Jan. 31, 1921}	1 80	6,469 58	11,645 24	1,425	32	4 44	1,537 75	9 05
3. South Boston.....	C. & R. Construction Company.	{Mar. 1, 1920 Jan. 31, 1921}	1 80	2,172 10	3,909 78	516	5	4 17	756 41	8 96
4. East Boston and Charlestown.	C. & R. Construction Company.	{Mar. 1, 1920 Jan. 31, 1921}	1 80	{1,250 41 1,118 57}	{4,390 17 4,390 17}	{403 380}	{2 3}	{3 09 3 10}	{1,163 35 1,163 35}	7 05
5. Brighton.....	James L. Pierce.....	{Mar. 8, 1920 June 30, 1920}	1 63	994 42	1,620 91	316	18	2 98	451 41	6 20
6. West Roxbury.....	James L. Pierce.....	{Mar. 8, 1920 June 30, 1920}	1 63	1,054 35	1,718 58	341	2	3 07	324 11	5 95
	John T. Shea, jr.....	{Aug. 20, 1920 Sept. 4, 1920}	2 50	173 41	433 53	51	2	3 27	92 04	9 91
	Dominick Vozella.....	{Oct. 3, 1920 Dec. 10, 1920}	3 30	967 52	3,192 81	248	3	3 85	251 20	13 72
7. Dorchester and Hyde Park.....	C. & R. Construction Company.	{Mar. 1, 1920 Jan. 31, 1921}	2 00	{5,006 63 867 53}	{11,748 32 11,748 32}	{1,359 236}	{52 18}	{3 55 3 42}	{1,579 12 1,579 12}	8 00

Total catch-basins cleaned..... 6,824  
Total drop inlets cleaned..... 154

Total cost: Contractors..... \$51,705 04  
Inspection..... 18,418 43  
Advertising..... 32 40  
Miscellaneous..... 372 72  
\$60,528 59

Total cubic yards material removed 27,010.67  
Average cost per basin including drop inlets \$8.616.

\* Paid in 1921, \$4,541.75.

† Includes \$572.09 office salaries.

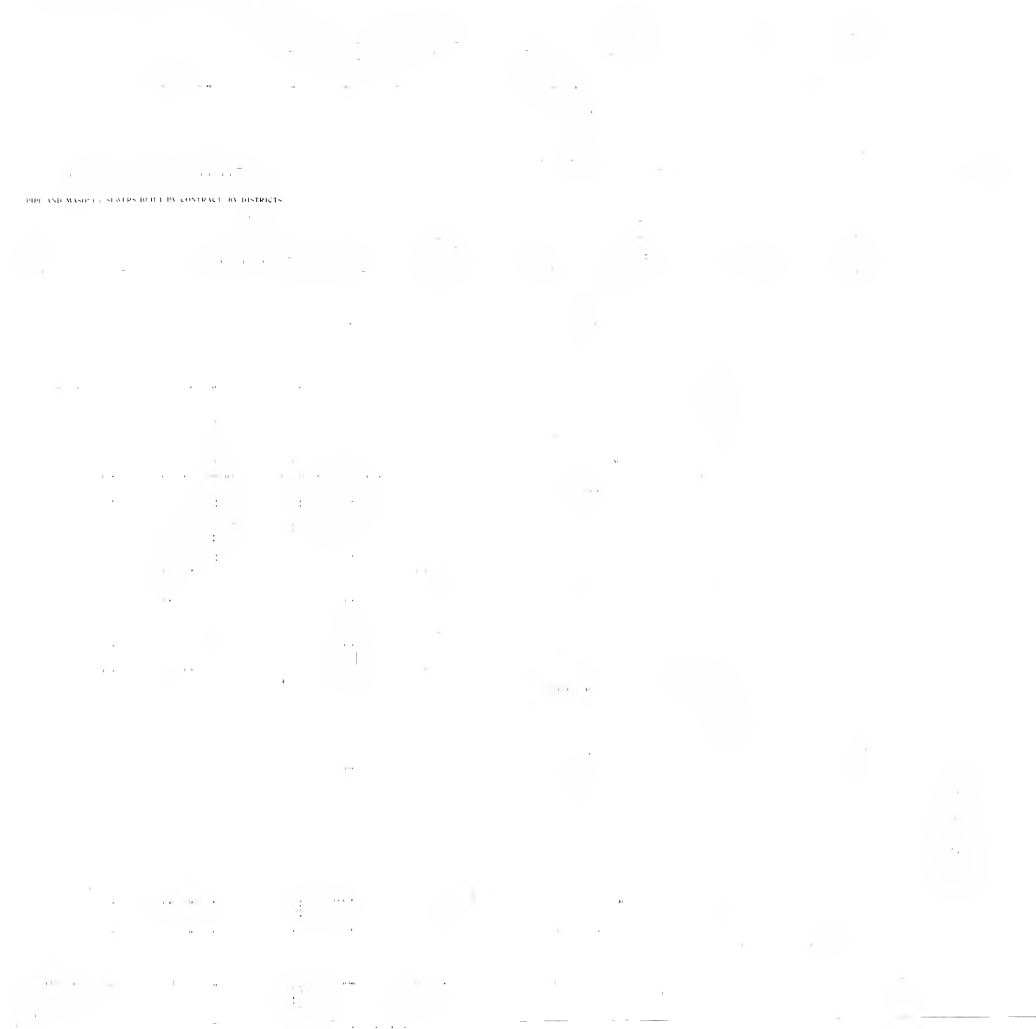
## Sewerage Works.

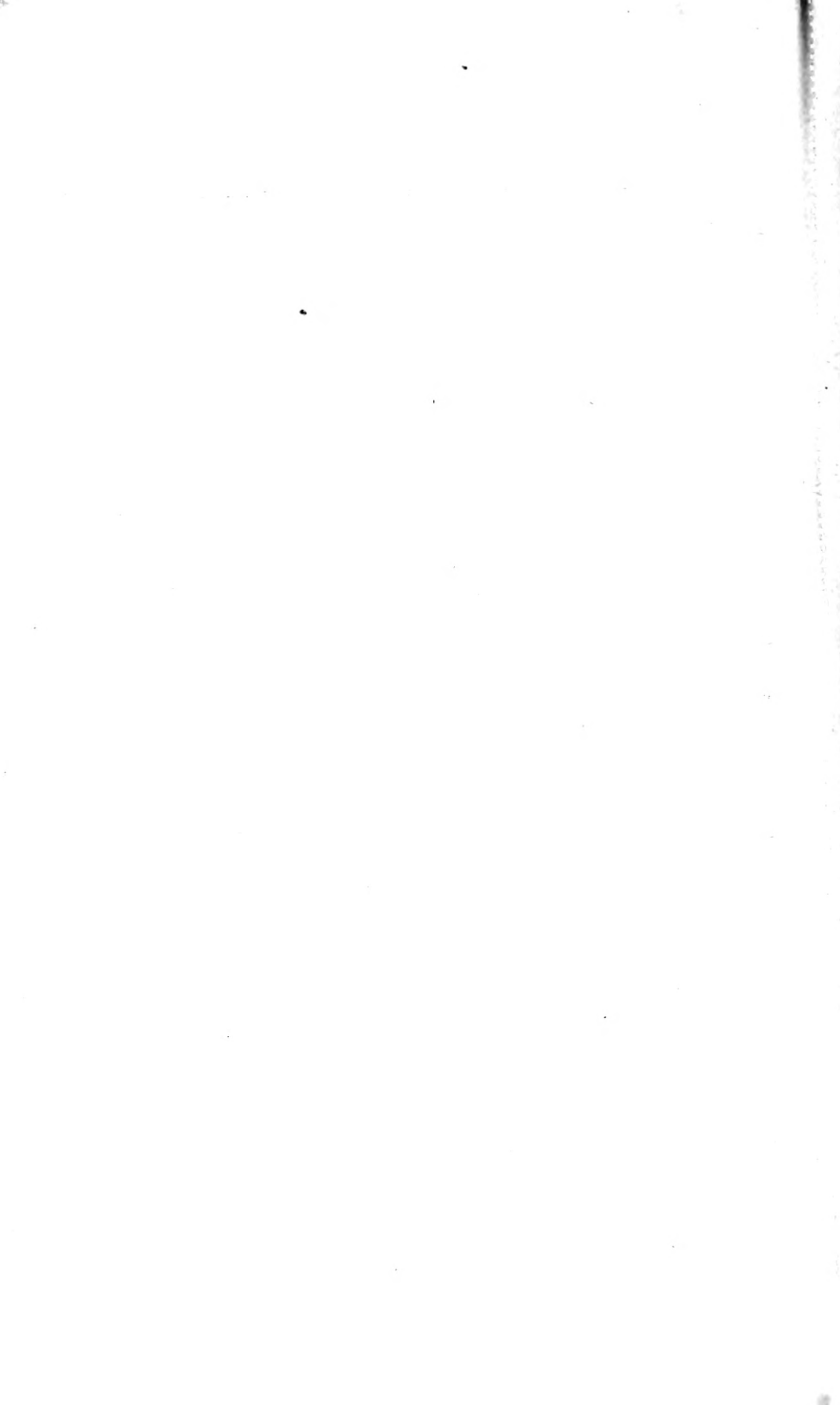
Expenditures February 1, 1920, to January 31, 1921.

Accounts.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Totals.
Engineers' salaries.....	\$97,923 25					\$97,923 25
Engineers' expense.....	2,562 03	\$682 38	\$700 64	\$5,490 23		9,435 28
Pumping stations and Moon Island.....	2,005 94		183 23	472 08	\$46,874 38	49,535 63
Sundries.....	3,277 60	191 25	1,956 87	892 02		6,317 74
Land-takings and court executions.....				300 00		300 00
New manholes, entire city.....	4,541 24	1,091 79	2,963 62	59 04		8,355 70
New catch-basins, South Boston.....	704 51	246 25	410 48	6 25		1,367 49
New catch-basins, East Boston.....						
New catch-basins, Charlestown.....	274 70	84 50	120 14		252 87	732 21
New catch-basins, Brighton.....	632 31	252 50	601 30	9 57		1,495 68
New catch-basins, West Roxbury.....	9,282 88	1,491 50	6,314 23	30 31		17,118 92
New catch-basins, Dorchester.....	1,192 43	338 32	813 62	25 00		2,369 37
New catch-basins, Hyde Park.....	686 38	132 50	224 12			1,043 00
New catch-basins, Roxbury.....	1,922 57	586 99	1,012 48	15 22		3,537 26
New catch-basins, City proper.....	6,187 56	1,895 77	3,574 36	234 31		11,892 00
Sewers built in entire city.....	55,375 23	2,405 58	33,694 93	4,754 32	540,391 91	636,621 97
<b>Totals.....</b>	<b>\$186,568 64</b>	<b>\$9,399 33</b>	<b>\$52,270 02</b>	<b>\$12,288 35</b>	<b>\$587,519 16</b>	<b>\$848,045 50</b>



SEWER CONSTRUCTION  
PIPE AND MANHOLE SIZES BUILT BY DAY LABOR BY DISTRICTS





**SEWER CONSTRUCTION - Continued**  
**PIPE AND MASONRY SETWORKS BY CONTRACT BY DISTRICT**

DISTRICT	CONTRACT NO.	DESCRIPTION OF WORK	AMOUNT	DATE
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
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40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
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65	65	65	65	65
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74	74	74	74	74
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82	82	82	82	82
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91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100



## SEWERAGE WORKS LOAN EXPENDITURES FOR 1920-21.

### SOUTH BOSTON.

Alger street, from Dorchester avenue to about 540 feet westerly . . . . .	\$14,518 92
Farragut road extension, from East Third street to about 350 feet northwesterly . . . . .	26,784 94
	<u>\$41,303 86</u>

Built, 1,454.06 linear feet, 5 manholes, 6 catch-basins.

### EAST BOSTON.

Condor street, from Glendon street to East Eagle street . . . . .	\$2,355 00
Lubec street outlet in private land, between Cottage street and existing conduit . . . . .	408 33
Murray court, from Orleans street to end of court, . . . . .	1,909 87
	<u>\$4,673 20</u>

Built 251.50 linear feet, 2 manholes.

### CHARLESTOWN.

Rutherford avenue, from Chapman street to Cambridge street . . . . .	\$793 29
Chelsea street, from Foss street to Wapping street, . . . . .	1,223 57
	<u>\$2,016 86</u>

Built 98.40 linear feet, 1 manhole, 1 catch-basin.

### BRIGHTON.

Gardner street, from Babcock street to outlet about 485 feet westerly . . . . .	\$162 99
Perle street, at Washington street . . . . .	489 09
Wade street, from Commonwealth avenue to about 650 feet southwesterly . . . . .	5,107 87
Washington street, from Tip Top street to Market street . . . . .	11 00
	<u>\$5,770 95</u>
<i>Carried forward</i> . . . . .	\$5,770 95

<i>Brought forward</i>	\$5,770 95
Falkland terrace, from Hobart street to Brookdale road	4,464 13
Chestnut Hill avenue, from Cleveland circle to Commonwealth avenue	16,077 86
Glenville avenue, from Allston street to Greylock road	
Private land (outlet for Algonquin road), from Lake street to Newton line	16,153 37
Private land and Babcock street, from Salt Creek (outlet to Commonwealth avenue)	11,936 44
Market street, from Lothrop street to Washington street	24,867 69
Larch street, from South Crescent circuit to Kenrick street	20,165 66
Brayton road, from Kenrick street to Crescent avenue	
South Crescent circuit, from Crescent avenue to Regent street	
South Crescent circuit and private land, from Larch street to Regent street	14,172 28
Murdock street, from North Beacon street to Cushman road	
Cushman road, from Glencoe street to Duston street	
Cambridge street, from Hano street to Wilton street	2,753 21
	<u>\$116,361 59</u>

Built 16,288.34 linear feet, 135 manholes, 33 catch-basins.

#### WEST ROXBURY.

Richwood street, Centre street, Willow street and private land	\$700 00
Belgrade avenue, from Anawan avenue to Centre street, and Beech street, from West Roxbury parkway to Belgrade avenue	1,656 69
Green street, from Amory street to Washington street	
Redlands road, from Centre street to Abbott street	150 92
Westover street and private land, from Addington road to Weld street	219 32
Brown avenue, from Blakemore street to Garden street	1,324 94
Stony brook conduit, Section No. 10	251 88
Malcolm street, from New York, New Haven & Hartford Railroad to Belgrade avenue	57,091 70
	1,124 84
<i>Carried forward</i>	<u>\$62,520 29</u>

<i>Brought forward</i>	\$62,520 29
Hastings street, from Centre street to Montview street	5,828 03
Private land and Paine street (near Brook street), from Canterbury branch of Stony brook to brook from Forest Hills Cemetery	6,082 47
Saville and Wren streets, from Park street to Oriole street and Board of Survey street No. 664, from Wren street to Emmons road	15,540 97
South street, Leshar street and private land and Archdale road	23,707 78
Catch-basins and minor drains in various streets in Boston	21,014 79
Castleton street, from Jamaica way to South Huntington avenue, and Zamora street, from Castleton street to about 415 feet southerly,	9,310 47
Williams street and Forest Hills street, from about 220 feet southeast of 7 Plainfield street to about 30 feet south of Williams street	7,404 13
Centre street, from South street to Spring street,	35,961 96
	<u>\$187,370 89</u>

Built 11,044.91 linear feet, 57 manholes, 102 catch-basins.

## DORCHESTER.

Catch-basins and minor drains, Dorchester and city proper	\$961 11
Carson street, from Crescent avenue to 337 feet northeasterly	1,075 00
Elton street, from Auckland street to Dorchester avenue	665 32
Fairview street, from Frost avenue to Train street	84 45
Ridge road, from Oakland street to Randolph road and 430 feet southerly	280 47
Wilbur street, from Cushing avenue to Upham avenue	2,586 48
Oak avenue, 506 feet from Adams street to 100 feet westerly. Colorado street, from Almont street to 160 feet northeasterly	1,301 79
Rockdale street, from Springdale street to Savin Hill avenue	3,467 79
Tenean street and private land, 250 feet north of Fulton street	6,262 47
Wilcock street, from Morton street to Blue Hill avenue	1,046 56
<i>Carried forward</i>	<u>\$17,731 44</u>

<i>Brought forward</i>	\$17,731 44
Havelock street, from Morton street to Blue Hill avenue	3,254 98
Kennebec street and outlet in private land and Ruskin road	8,746 22
Wollaston terrace, from Woodrow avenue to Jones avenue	1,233 87
Harvard street, from Fabyan street to Greenock street	1,464 50
Massachusetts avenue, opposite Willow court, Catch-basins, manholes and surface drains in Boston	1,416 12
Fox Point road, from Savin Hill avenue to about 134 feet southeasterly and easterly	776 98
Itasca street, from Oakland street to about 1,182 feet northwesterly	9,416 93
Private land and Banfield avenue, from Delhi street to West Selden street	5,151 13
Private land, from Delhi street to about 176 feet southeasterly	5,686 69
	<hr/>
	\$64,146 24

Built 6,130.49 linear feet, 52 manholes, 27 catch-basins.

#### HYDE PARK.

Hyde Park avenue, from Metropolitan avenue to River street	\$3,015 38
Bradlee street, from 240 feet north of Collins street to Thatcher street	15,697 14
Thatcher street from Bradlee street to Metropolitan avenue	
Huntington avenue, from Thatcher street to Safford street	
Lexington avenue, from Jefferson street to about 156 feet northerly	1,405 42
Loring street, from Foster street to Tyler street and outlet in Glenwood avenue	2,782 52
River street, from Hyde Park avenue to Central avenue	5,224 79
Roanoke road, from Kennebec street to about 120 feet northwesterly	1,273 69
	<hr/>
	\$29,398 94

Built 4,154.38 linear feet, 23 manholes, 6 catch-basins.



## ROXBURY.

Northampton street, from Fellows street to 95 feet south of Harrison avenue . . . . .	\$100 00
Fellows street, from Northampton street to Orange street . . . . .	
Tremont street, at Columbus avenue, and catch-basins and manholes in city proper, Roxbury and South Boston . . . . .	1,533 00
Alley No. 450, from Dalton street to Alley No. 451 . . . . .	473 22
South Huntington avenue, from Bynner street to Evergreen street . . . . .	105 41
Mechanic street, from Madison court to about 150 feet southerly . . . . .	3,658 94
Brookline avenue, from Beacon street to Audubon road (Muddy river conduit) . . . . .	52,682 65
Public Alley No. 909, from Hemenway street to Massachusetts avenue . . . . .	11,496 86
Cummington street, from Commonwealth avenue to Boston & Albany Railroad . . . . .	6,661 22
Grosvenor place, from Cliff street to about 266 feet south and southwesterly . . . . .	6,065 40
Hemenway street and Forsyth park . . . . .	749 46
Amory avenue, from Stony brook conduit to Amory street . . . . .	4,638 33
	<hr/>
	<u>\$88,164 49</u>

Built 3,626.83 linear feet, 17 manholes, 10 catch-basins.

## CITY PROPER.

Kneeland street, from Atlantic avenue to Washington street . . . . .	\$1,182 21
Albany street, from Troy street to Oswego street, . . . . .	2,292 86
Blackstone street, from Haymarket square to Clinton street . . . . .	15,539 47
Clarendon street, Buckingham street, Trinity place, Stanhope street and Stuart street . . . . .	9,813 54
Richmond street, from Commercial street to Hanover street . . . . .	1,729 65
Beverly street, at Traverse street . . . . .	70 61
Friend street, from Merrimac street to Dock square . . . . .	2,278 13
Market street, from Canal street to Portland street . . . . .	
	<hr/>
<i>Carried forward</i> . . . . .	\$32,906 47

<i>Brought forward</i> . . . . .	\$32,906 47
Buckingham street, from Clarendon street to about 25 feet westerly . . . . .	4,354 99
Charles street, from Beacon street to Cambridge street . . . . .	1,363 12
Catch-basins and minor drains in Boston . . . . .	5,580 49
Oswego street, from Albany street to Harrison avenue . . . . .	14,861 11
Leverett street, from Green street to Causeway street . . . . .	1,996 32
Unity court, from Unity street to about 154 feet westerly and northerly . . . . .	2,902 39
Catch-basins, manholes and minor drains in Boston . . . . .	17,602 42
Berkeley street, from St. James avenue to Providence street . . . . .	12,720 50
Bridge court and North Anderson street, from Parkman street to Cambridge street . . . . .	8,898 09
	<hr/>
	<u>\$103,185 90</u>

Built 3,439.64 linear feet, 14 manholes, 109 catch-basins.

#### SEWERAGE WORKS LOAN, 1920-21.

Engineers' salaries, general . . . . .	\$97,923 25
Amount charged to construction of sewers . . . . .	23,803 00
	<hr/>
	<u>\$121,726 25</u>

#### ENGINEERS' EXPENSE.

Labor . . . . .	\$2,562 03
Teaming . . . . .	682 38
Borings . . . . .	368 00
Transportation . . . . .	2,251 51
Photographs . . . . .	337 20
Supplies, etc. . . . .	3,234 16
	<hr/>
	<u>\$9,435 28</u>

#### PUMPING STATION AND MOON ISLAND CONSTRUCTION.

Advertising . . . . .	\$6 30
Labor . . . . .	2,005 94
Contracts . . . . .	46,874 38
Materials . . . . .	183 23
Balance, old contract 1912 . . . . .	125 00
Tobin bronze . . . . .	44 78
Wrought-iron rings . . . . .	296 00
	<hr/>
	<u>\$49,535 63</u>

## SUNDRIES.

Labor . . . . .	\$3,277 60
Teaming . . . . .	191 25
Resurfacing streets . . . . .	580 09
Materials . . . . .	1,956 87
Advertising . . . . .	13 30
Relocating water pipes . . . . .	298 63
	<hr/>
	<u>\$6,317 74</u>

COURT EXECUTIONS AND AWARDS ON ACCOUNT OF LAND  
TAKINGS, ETC.

New England Dressed Beef Company, North Beacon street, Brighton . . . . .	\$300 00
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## Sewerage Works. — Manholes.

Location.	Built by	Number.	Labor.	Teaming.	Material.	Totals.	Began.	Finished.
North Anderson street and Bridge court, City proper....	Day labor....	1	\$60 30	\$38 50	\$93 53	\$192 33	Mar. 15	Mar. 18
Columbus avenue and Newton street, City proper....	Day labor....	1	200 00	38 50	130 31	368 81	Mar. 17	Mar. 30
Stratford street and Saville street, West Roxbury.....	Day labor....	1	282 70	23 50	93 50	399 70	April 16	April 22
Webster avenue, 190 feet from Hanover street, City proper.	Day labor....	1	111 60	33 00	71 77	216 37	April 16	April 22
Florence street and Firth road, West Roxbury.....	Day labor....	1	390 41	36 50	52 47	479 41	April 9	April 20
Chambers street, at McLean and Green streets, City proper.	Day labor....	2	289 62	71 50	180 82	541 94	April 1	April 15
Chestnut avenue and Hoffman street, Roxbury.....	Day labor....	1	125 71	48 75	52 03	226 49	May 5	May 13
Polk street, between Bunker Hill street and Medford street, Charlestown.	Day labor....	1	111 60	16 00	65 75	193 35	May 3	May 8
Prospect street, between Chelsea street and Tremont street, Charlestown.	Day labor....	1	130 20	16 50	57 13	203 83	May 11	May 17
Clarendon street, near Stanhope street, City proper....	Day labor....	1	73 00	47 12	77 72	197 84	May 14	May 20
La Grange street, between Washington street and Tremont street, City proper.	Day labor....	1	75 60	32 50	35 20	143 30	May 19	June 7
Metropolitan avenue, at Washington street, West Roxbury.	Day labor....	1	130 08	22 00	55 32	207 40	June 8	June 12
Baldwin street, 165 feet north of Main street, Charlestown.	Day labor....	1	102 30	29 25	22 87	154 42	June 28	July 2
Austin street, at Seminary street, Charlestown.....	Day labor....	1	148 80	19 50	30 57	198 87	July 28	Aug. 4
Commonwealth avenue, between St. Mary's street and Essex street, Brighton.	Day labor....	1	133 20	35 25	79 32	247 77	July 21	July 28

Cambridge street, under railroad bridge, Charlestown....	1	93 60	65 00	62 91	221 51	Aug. 25	Aug. 30
Edwin street, between Devon street and Florida street, Dorchester.	2	90 00	29 25	180 24	299 49	May 19	June 30
Summer street, at Fort Point channel, South Boston....	1	60 00	32 50	65 60	158 10	Aug. 16	Sept. 6
Fremont street, near Blue Hill avenue, Dorchester.....	1	69 04	16 25	71 59	156 88	Sept. 7	Sept. 11
Lehigh street, between Albany street and Broadway Bridge, City proper.	2	379 62	83 25	143 60	606 47	Aug. 27	Sept. 14
Sudbury square and Portland street, City proper.....	1	179 71	33 00	88 17	300 88	Sept. 22	Sept. 30
River street and Hyde Park avenue, Hyde Park.....	1	144 37	52 25	96 29	292 91	Oct. 13	Oct. 16
State street, at No. 203, City proper.....	1	72 51	16 25	73 70	162 46	Oct. 22	Oct. 23
Clark street and Commercial street, City proper.....	1	71 80	19 50	100 25	191 55	Oct. 29	Nov. 1
Boylston street and Tremont street, City proper.....	1	30 00	10 00	43 80	83 80	Oct. 8	Oct. 14
Brattle street, at Brattle square, City proper.....	1	278 00	69 88	182 26	530 14	Nov. 20	Dec. 2
Clarkson street and Hamilton street, Dorchester.....	1	54 76	9 75	22 94	87 45	Nov. 10	Nov. 12
Dix street, opposite No. 100, Dorchester.....	1	46 58	6 50	73 34	126 42	Nov. 8	Nov. 9
Elmore street and Galena street, Roxbury.....	1	349 38	65 00	154 48	568 86	Nov. 19	Nov. 30
Neponset avenue, at playground, Dorchester.....	1	27 80	9 75	53 56	91 11	Nov. 26	Nov. 29
Ivanhoe street, 20 feet north of West Dedham street, City proper.	1	106 40	19 50	67 80	193 70	Dec. 2	Dec. 7
Monadnock street, at Dudley street, Dorchester.....	1	111 93	16 25	80 20	208 38	Dec. 28	Dec. 31
Miscellaneous.....		10 60	.....	63 25	73 85		
Paid in 1920, manhole built in 1919.....		.....	25 54	4 37	29 91		
Totals.....	35	\$4,541 25	\$1,087 79	\$2,726 66	\$8,355 70		

## SEWERAGE WORK LOAN.

New catch-basins Paid for February 1-1920, to January 31-1921. (Contract and Day Labor.)

District.	Built by	BUILT IN 1920.		BUILT IN 1918.			Total Expenditure.	Location.	Number Catch-basins Built.	Number Catch-basins Rebuilt.
		Materials, etc.	Labor.	Contractor.*	Materials and Teaming.					
New catch-basins, South Boston.....	Day labor.....	.....	\$172 30	.....	\$214 66	\$386 96	G street at No. 55.....	.....	2	.....
New catch-basins, South Boston.....	Day labor.....	.....	38 60	.....	70 67	109 27	C street and Broadway.....	.....	.....	1
New catch-basins, South Boston.....	Day labor.....	.....	221 70	.....	200 32	422 02	Summer street at Fort Point Channel.....	.....	.....	1
New catch-basins, South Boston.....	Day labor.....	.....	169 71	.....	50 10	219 81	Sleeper street at No. 29.....	.....	.....	1
New catch-basins, South Boston.....	Day labor.....	.....	102 20	.....	115 75	217 95	Dorchester street and West First street.....	.....	.....	1
New catch-basins, South Boston.....	Day labor.....	.....	.....	.....	11 48	11 48	Connections.....	.....	.....	.....
New catch-basins, Charlestown.....	Contract.....	\$292 97	\$704 51	.....	\$662 98	\$1,367 49	Medford street, southwest corner Fremont place.....	.....	2	4
New catch-basins, Charlestown.....	Day labor.....	.....	274 70	.....	164 54	292 97 439 24	.....	.....	1	.....
New catch-basins, Brighton.....	Day labor.....	\$292 97	\$274 70	.....	\$164 54	\$732 21	Babcock street north of Commonwealth avenue.....	.....	1	.....
New catch-basins, Brighton.....	Day labor.....	.....	141 20	.....	183 00	324 20	Reservoir road near Beacon street.....	.....	1	.....
New catch-basins, Brighton.....	Day labor.....	.....	152 32	.....	149 11	301 43	Linden street at No. 91.....	.....	.....	1
New catch-basins, Brighton.....	Day labor.....	.....	50 45	.....	55 20	105 65	Leicester street, south of Arlington street.....	.....	1	.....
New catch-basins, Brighton.....	Day labor.....	.....	112 27	.....	177 12	289 39	Connections and drop inlets.....	.....	.....	.....
New catch-basins, Brighton.....	Day labor.....	.....	176 07	.....	289 37	465 44	.....	.....	.....	.....

Day labor	9 57	9 57	9 57	9 57	3	1
New catch-basins, Brighton	\$9 57	\$632 31	\$853 80	\$1,495 68	1	1
New catch-basins, West Roxbury		212 53	171 93	384 46	1	1
New catch-basins, West Roxbury		590 75	327 92	819 67	3	3
New catch-basins, West Roxbury		253 81	156 33	410 14	1	1
New catch-basins, West Roxbury		446 85	304 51	751 36	2	2
New catch-basins, West Roxbury		94 07	91 10	185 17	1	1
New catch-basins, West Roxbury		260 47	229 67	490 14	2	2
New catch-basins, West Roxbury		219 62	175 61	395 23	1	1
New catch-basins, West Roxbury		235 69	194 21	429 90	1	1
New catch-basins, West Roxbury		417 22	561 43	978 65	2	2
New catch-basins, West Roxbury		725 20	578 93	1,304 13	3	3
New catch-basins, West Roxbury		267 63	155 00	422 63	1	1
New catch-basins, West Roxbury		102 36	152 34	254 70	1	1
New catch-basins, West Roxbury		377 10	237 59	614 69	2	2
New catch-basins, West Roxbury		479 78	501 79	981 57	2	2
New catch-basins, West Roxbury		3,942 60	3,718 88	7,661 48	13	14
New catch-basins, West Roxbury		248 32	72 70	321 02	1	1
New catch-basins, West Roxbury		408 88	206 10	614 98		
New catch-basins, West Roxbury		\$9,282 88	\$7,836 04	\$17,118 92	37	14
New catch-basins, Dorchester	\$63 47			6 347		

\* No work done by contract.

## Sewerage Works Loan.—Continued.

District.	Built by	Built in 1920.			Total Expenditure.	Location.	Number Basins Built.	Number Catch-basins Rebuilt.
		Built in 1919.	Labor.	Contractor.*	Material and Teaming.			
		Materials, etc.						
New catch-basins, Dorchester.....	Day labor.....		\$147 51		\$157 75	Edwin street.....	1	
New catch-basins, Dorchester.....	Day labor.....		254 00		241 23	Freeport street.....	2	
New catch-basins, Dorchester.....	Day labor.....		380 18		196 00	Bernard street corner Norfolk street.....	1	
New catch-basins, Dorchester.....	Day labor.....		132 38		124 37	Codman street opposite Carwith street.....	1	
New catch-basins, Dorchester.....	Day labor.....		112 59		156 70	Dudley street 25 feet east of Virginia street.....	1	
New catch-basins, Dorchester.....	Day labor.....		133 30		139 50	Cedar street at Manchester street.....	1	
New catch-basins, Dorchester.....	Day labor.....		32 47		97 92	Connections.....		
			\$1,192 43		\$1,113 47		7	
New catch-basins, Hyde Park.....	Day labor.....		286 32		234 52	Greenwood avenue corner Metropolitan avenue.....	1	
New catch-basins, Hyde Park.....	Day labor.....		400 06		122 10	Connections and drop inlets.....		
			\$686 38		\$356 62		1	
New catch-basins, Roxbury.....	Day labor.....	\$466 66						
New catch-basins, Roxbury.....	Day labor.....		279 46		247 22	Winslow street.....	3	2
New catch-basins, Roxbury.....	Day labor.....		58 40		159 28	Centre street and Amory street.....		1
New catch-basins, Roxbury.....	Day labor.....		231 60		219 64	No. 118 Blue Hill avenue.....		1
New catch-basins, Roxbury.....	Day labor.....		88 60		111 33	No. 1786 Washington street.....		1



New catch-basins, Roxbury.....	Day labor.....		39 20		96 27	135 47	No. 1985 Washington street.....	1
New catch-basins, Roxbury.....	Day labor.....		65 60		80 20	145 80	Holborn street near Holborn park.....	
New catch-basins, Roxbury.....	Day labor.....		68 10		85 18	153 28	Dearborn street near school-house.....	1
New catch-basins, Roxbury.....	Day labor.....		1,091 61		148 91	1,240 52	Connections.....	
		\$466 66	\$1,922 57		\$1,148 03	\$3,537 26		10
New catch-basins, City proper.....	Day labor.....	360 71				360 71		
New catch-basins, City proper.....	Day labor.....		36 60		58 94	95 51	Mercantile and Clinton streets.....	1
New catch-basins, City proper.....	Day labor.....		163 64		156 67	320 31	Columbus avenue and Newton street.....	1
New catch-basins, City proper.....	Day labor.....		564 82		364 27	929 09	Devonshire and Milk streets.....	2
New catch-basins, City proper.....	Day labor.....		331 65		281 68	613 33	Massachusetts avenue and Washington street.....	
New catch-basins, City proper.....	Day labor.....		208 95		129 90	338 85	Faneuil Hall square.....	1
New catch-basins, City proper.....	Day labor.....		154 40		183 84	338 24	Tremont street and Montgomery street.....	3
New catch-basins, City proper.....	Day labor.....		76 60		102 61	179 21	Stevens street.....	1
New catch-basins, City proper.....	Day labor.....		241 60		371 50	613 10	La Grange street.....	2
New catch-basins, City proper.....	Day labor.....		31 80		86 63	118 43	Tremont street at National Theatre.....	1
New catch-basins, City proper.....	Day labor.....		297 84		155 46	453 30	Harrison avenue at No. 849 and No. 865.....	2
New catch-basins, City proper.....	Day labor.....		103 20		120 05	223 25	Causeway street at No. 239.....	1
New catch-basins, City proper.....	Day labor.....		256 35		90 30	346 65	Wiget street at No. 18.....	1
New catch-basins, City proper.....	Day labor.....		134 43		47 25	181 68	Allen street and Kennard avenue.....	1
New catch-basins, City proper.....	Day labor.....		150 20		174 69	324 89	West Cedar street at No. 97.....	1
New catch-basins, City proper.....	Day labor.....		193 01		101 38	294 39	Warren avenue at No. 83.....	1
New catch-basins, City proper.....	Day labor.....		422 51		600 35	1,022 86	Chambers street and Brighton street.....	4

\* No work by contract.

## Sewerage Works Loan.—Concluded.

District.	Built by	Built in 1919.	Built in 1920.			Total Expenditure.	Location.	Number Catch-basins Built.	Number Catch-basins Rebuilt.
		Materials, etc.	Labor.	Contractor.*	Material and Teaming.				
New catch-basins, City proper.....	Day labor.....	.....	\$123 60	.....	\$151 31	\$274 91	Tremont street and Boylston street.....	1	1
New catch-basins, City proper.....	Day labor.....	.....	139 06	.....	114 87	253 93	Beacon street at No. 298.....	1	1
New catch-basins, City proper.....	Day labor.....	.....	143 60	.....	180 45	324 05	Shawmut avenue and Worcester street.....	1	
New catch-basins, City proper.....	Day labor.....	.....	163 78	.....	144 90	308 68	North Market street at No. 2.....	1	1
New catch-basins, City proper.....	Day labor.....	.....	309 85	.....	112 05	421 90	Commercial street at No. 143 and No. 210.....	2	2
New catch-basins, City proper.....	Day labor.....	.....	192 76	.....	146 50	339 26	Stillman street at No. 35.....	1	1
New catch-basins, City proper.....	Day labor.....	.....	43 80	.....	169 69	213 49	Chester place.....	1	1
New catch-basins, City proper.....	Day labor.....	.....	1,703 51	.....	1,298 44	3,001 95	Connections, inlets, etc.....		
		\$360 71	\$6,187 56	.....	\$5,343 73	\$11,892 00		9	25
Grand totals.....		\$1,193 38	\$20,883 34	.....	\$17,479 21	\$39,555 93		60	54

\* No work by contract.

## New Catch-basins Paid for February 1, 1920 to January 31, 1921 (Included in Other Sewer Construction).

District.	Built by	Contractor.	EXPENDITURES.			Total.	Location.	Number.
			Materials, etc.	Labor.	Materials and Teaming.			
South Boston.....	Contract.....	\$1,334 99	\$565 65	.....	.....	\$1,900 64	Alger street.....	6
Charlestown.....	Contract.....	290 54	102 63	.....	.....	393 17	Chelsea street.....	1
Brighton.....	Contract.....	624 21	241 87	.....	.....	866 08	Falkland terrace.....	4
Brighton.....	Contract.....	2,412 32	945 23	.....	.....	3,357 55	Chestnut Hill avenue and Glenville avenue.....	11
Brighton.....	Contract.....	755 73	431 18	.....	.....	1,186 91	Private land and Babcock street.....	5
Brighton.....	Contract.....	907 39	503 80	.....	.....	1,411 19	Market street.....	5
Brighton.....	Contract.....	1,448 20	740 73	.....	.....	2 188 93	Cushman road and Murdock street.....	8
West Roxbury.....	Contract.....	133 58	70 80	.....	.....	204 38	Malcolm street.....	1
West Roxbury.....	Day labor.....	.....	.....	\$226 73	\$138 49	365 22	Belgrade avenue and Beech street.....	1
West Roxbury.....	Contract.....	1,449 79	2,290 25	.....	.....	3,740 04	Centre street.....	6
West Roxbury.....	Day labor.....	.....	.....	150 00	166 25	316 25	Centre street.....	1
West Roxbury.....	Contract.....	685 25	359 03	.....	.....	1,044 28	Hastings street.....	5
West Roxbury.....	Contract.....	349 20	176 86	.....	.....	526 06	Private land and Paine street.....	2
West Roxbury.....	Contract.....	2,518 75	867 77	.....	.....	3,386 52	South street, Lesler street and Archdale road.....	11
West Roxbury.....	Contract.....	13,000 00	5,733 22	1,281 57	.....	20,014 79	*Catch-basins and minor drains in Bos- ton.....	68
West Roxbury.....	Contract.....	1,147 06	489 02	.....	.....	1,636 08	Castleton and Zamora street.....	7
Dorchester.....	Contract.....	422 81	269 52	.....	.....	692 33	Wilbur street.....	3
Dorchester.....	Contract.....	597 68	348 44	.....	.....	946 12	Rockdale street.....	4
Dorchester.....	Contract.....	640 79	200 40	.....	.....	841 19	Havlock street.....	4
Dorchester.....	Contract.....	3,311 00	1,635 75	.....	.....	4,946 75	Catch-basins, manholes and surface drains in Boston.....	15
Dorchester.....	Contract.....	177 47	52 25	.....	.....	229 72	Wollaston terrace.....	1
Hyde Park.....	Contract.....	1,262 00	567 78	.....	.....	1,829 78	River street.....	6

\* Cost not complete.

## New Catch-basins Paid for February 1, 1920, to January 31, 1921 (Included in Other Sewer Construction). — Concluded.

District.	Built by	Contractor.	EXPENDITURES.			Total.	Location.	Number.
			Materials, etc.	Labor.	Materials and Teaming.			
Roxbury.....	Contract.....	\$344 63	\$156 30	.....	.....	\$500 93	Mechanic street.....	2
Roxbury.....	Contract.....	520 00	.....	.....	.....	520 00	*Brookline avenue.....	4
Roxbury.....	Contract.....	219 78	100 90	.....	.....	320 68	Public Alley No. 909.....	1
Roxbury.....	Contract.....	607 73	171 67	.....	.....	779 40	Cunnington street.....	2
Roxbury.....	Contract.....	257 07	74 55	.....	.....	331 62	Grosvenor place.....	1
City proper.....	Contract.....	577 15	112 00	.....	.....	689 15	Oswego street.....	4
City proper.....	Contract.....	4,362 63	1,217 86	.....	.....	5,580 49	Catch-basin and minor drains in Boston, 31	31
City proper.....	Contract.....	14,189 48	3,412 94	.....	.....	17,602 42	Catch-basin and minor drains in Boston, 172	172
City proper.....	Day labor.....	.....	.....	\$100 00	\$119 30	219 30	Levoret street.....	1
City proper.....	Contract.....	413 10	117 02	.....	.....	530 12	Berkeley street.....	1
		\$51,960 33	\$21,955 42	\$1,758 30	\$124 04	\$79,098 09		294

\* Cost not complete.

Recapitulation.		Amount Paid.
60 catch-basins built.....		\$39,555 93
54 catch-basins rebuilt.....		79,098 09
294 catch-basins built included in other sewer construction.....		\$118,654 02
408		
† Distributed as follows:		
South Boston, 17 catch-basins.....		\$4,663 60
Charlestown, 3 catch-basins.....		791 90
Brighton, 10 catch-basins.....		2,893 65
West Roxbury, 14 catch-basins.....		4,482 80
Dorchester, 30 catch-basins.....		8,533 70
Roxbury, 55 catch-basins.....		13,380 72
City proper, 26 catch-basins.....		7,817 59
		\$42,563 96

**Separate Systems of Drainage.**  
*Expenditures February 1, 1920, to January 31, 1921.*

ACCOUNTS.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Total.
Sewer built .....	.....	.....	.....	.....	\$14 22	\$14 22

**Old Harbor Improvement.**  
*Expenditures February 1, 1920, to January 31, 1921.*

ACCOUNTS.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Total.
Sewer built .....	\$2,075 77	.....	.....	\$159 65	\$7,730 75	\$9,966 17

## SEPARATE SYSTEMS OF DRAINAGE EXPENDITURES 1920-1921.

### WEST ROXBURY.

Church street, between Centre street and Halford road (built in 1912) . . . . . \$14 22

## OLD HARBOR IMPROVEMENT EXPENDITURES 1920-21.

### SOUTH BOSTON.

K street, from 155 feet south of Columbia road to a point about 424 feet southerly . . . . .  
N street, from 90 feet south of Columbia road to a point about 302 feet southeasterly . . . . .  
Built 720 linear feet. } \$9,966 17

## SEWER SERVICE.

Cost of Maintaining all Horses in the Sewer Service from February 1, 1920, to January 31, 1921.

ITEMS.	Total Cost.	27 Horses, Average Cost per Day.
Labor.....	\$12,198 50	\$1 240
Fodder.....	9,590 06	973
Shoeing.....	1,355 31	014
Veterinary services.....	261 33	026
Stable goods.....	231 08	023
Totals.....	\$23,636 28	\$2 402

## Summary of Sewer Construction for Twelve Months ended January 31, 1921.

DISTRICTS.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total Length.	Built.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	1,933.38	12.00	1,945.38	0.368
Roxbury.....	3,558.83		3,558.83	0.674
South Boston.....	2,074.71		2,074.71	0.393
East Boston.....	251.50		251.50	0.048
Charlestown.....	59.40		59.40	0.011
Brighton.....	15,719.34		15,719.34	2.978
West Roxbury.....	9,084.91		9,084.91	1.721
Dorchester.....	4,510.43		4,510.43	0.853
Hyde Park.....	5,348.62		5,348.62	1.013
Totals.....	42,541.12	12.00	42,553.12	8.059

### Net Increase in Length of Sewers Between February 1, 1920, and January 31, 1921.

DISTRICTS.	Length of Sewers Built During the Twelve Months Ended January 31, 1921.	Length of Sewers Re-built or Abandoned During the Twelve Months Ended January 31, 1921.	Net Increase for the Twelve Months Ended January 31, 1921.	
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	1,945.38	1,039.00	906.38	0.172
Roxbury.....	3,558.83	579.25	2,979.58	0.564
South Boston.....	2,074.71		2,074.71	0.393
East Boston.....	251.50	251.50		
Charlestown.....	59.40		59.40	0.011
Brighton.....	15,719.34	708.60	15,010.74	2.843
West Roxbury.....	9,084.91	2,542.50	6,542.41	1.240
Dorchester.....	4,510.43		4,510.43	0.853
Hyde Park.....	5,348.62		5,348.62	1.013
Totals.....	42,553.12	5,120.85	37,432.27	7.089

<i>Total Lengths of Sewers.</i>			<i>Miles.</i>
Common sewers and surface drains previous to January 31, 1920.....			938.98
Net increase of common sewers and surface drains, between February 1, 1920, and January 31, 1921.....			7.09
Total common sewers and surface drains to January 31, 1921.....			946.07
Intercepting sewers connecting with metropolitan system to January 31, 1921.....			* 6.81
Boston main drainage intercepting sewers to January 31, 1921.....			* 24.12
Grand total of common and intercepting sewers to January 31, 1921...			977.00
Total mileage of streets containing sewerage works.....			580.00

\* No additions during 1920.

### Summary of Sewer Construction for Five Years Previous to February 1, 1921.

	1916.	1917.	1918.	1919.	1920.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>
Built by the city by contract or day labor.....	91,421.56	80,828.46	31,764.84	57,105.04	42,541.12
Private parties.....	11,113.54	4,155.90	5,406.00	387.20	12.00
Totals.....	102,535.10	84,984.36	37,170.84	57,492.24	42,553.12

## Schedule of Catch-Basins in Charge of Sewer Service, February 1, 1921.

District.	Number Built.	Number Rebuilt.	CATCH-BASIN DATA, YEAR ENDED JANUARY 31, 1921.		TOTAL FOR WHOLE CITY IN CHARGE OF SEWER SERVICE.		Grand Total to February 1, 1921.
			Number Abandoned or Removed.	Net Increase.	Previous Report to February 1, 1920.	Catch-basins Previously Listed.	
City Proper.....	97	.....	76	21	3,168	.....	3,189
Roxbury.....	75	.....	60	15	2,778	.....	2,793
South Boston.....	29	.....	21	8	1,224	.....	1,232
East Boston.....	.....	.....	.....	.....	871	6	877
Charlestown.....	5	.....	1	4	747	.....	751
Brighton.....	47	1	2	44	1,201	.....	1,245*
West Roxbury.....	99	14	41	44	1,976	2	2,022†
Dorchester.....	49	.....	.....	49	3,421	.....	3,470
Hyde Park.....	7	.....	.....	7	354	.....	361
Totals.....	408	15	201	192	15,740	8	\$15,940

\* Exclusive of 236 in Commonwealth avenue.

† Exclusive of 58 in Washington street between Lagrange street and Dedham line (State Highway).



## EQUIPMENT OF PUMPING STATIONS.

*Calf Pasture Pumping Station.*

One vertical beam and fly-wheel, triple expansion engine of the Leavitt type; cylinders  $18\frac{1}{2}$  inches, 33 inches and  $52\frac{3}{4}$  inches in diameter; two single-acting pump plungers, each 60 inches diameter and 120-inch stroke; capacity 72,000,000 gallons in twenty-four hours with 40-foot lift.

Two vertical beam and fly-wheel compound engines of the Leavitt type; cylinders  $25\frac{1}{2}$  inches and 52 inches in diameter; two single-acting pump plungers, each 48 inches in diameter and 108-inch stroke; capacity of each engine 35,000,000 gallons in twenty-four hours with 40-foot lift.

Two steam turbine driven centrifugal pumps of the DeLaval type with a capacity of 56,000,000 gallons each in twenty-four hours with 40-foot lift.

Total horse power pumping engines, 2,050.

Total horse power station, including auxiliaries, 2,200.

*Summer Street Pumping Station (Automatic).*

Two submerged centrifugal pumps of the single stage, single bottom suction vertical type. Capacity of each pump, 3,000 gallons per minute against 13-foot static head when running 675 revolutions per minute.

Motor for each pump is a 20-brake horse power, 220 volts, 60-cycle, 3-phase vertical constant speed induction motor of the squirrel cage type.

*Union Park Street Pumping Station (Automatic).*

One 24-inch vertical submerged centrifugal pump, capacity 15,000 gallons per minute against static head of  $13\frac{1}{2}$  feet when running 233 revolutions per minute.

Three 36-inch vertical submerged centrifugal pumps, capacity of each, 30,000 gallons per minute, against a static head of  $13\frac{1}{2}$  feet when running 194 revolutions per minute.

Motor for 24-inch pump is one 75-brake horse power, constant speed squirrel cage 3-phase alternating current induction motor; synchronous speed of 240 revolutions per minute, full load speed of 233 revolutions per minute with alternating 3-phase, 60-cycle current at 440 volts.

Motors for the three 36-inch pumps are each 150-

brake horse power, with synchronous speed of 200 revolutions per minute, full load speed of 194 revolutions per minute; same description of motor and of current as for the 75-brake horse power motor.

*Hyde Park Pumping Station (Automatic).*

One 3-B Priestman Ejector, capacity of 100 gallons per minute against a static head of  $12\frac{1}{2}$  feet, with two gates, one inlet flap valve, one outlet check valve and one operating valve.

One Worthington  $7\frac{1}{2}$  horse power motor.

COST OF PUMPING.

Average cost per million foot-gallons for pumping; volume (38,463.835 million gallons) by (times) lift 40.3 feet = 1,550,092.559 million foot-gallons for the year.

Labor cost included in total is based upon the following force of forty-eight men:

One superintendent, one clerk, one storekeeper, one electrician, one carpenter, one blacksmith, two machinists, four laborers and four "engineers' watches," each including nine men. Cost of city water not included.

ITEMS.	Cost.	Cost per Million Foot- Gallons.
Labor.....	\$70,443 20	\$0 04544
Coal.....	107,237 30	06918
Oils and waste.....	3,879 63	00250
Rubber valves and packing.....	1,667 77	00108
Miscellaneous renewals and supplies.....	26,669 02	01721
Totals.....	\$209,896 92	\$0 13541
Labor at screens.....	\$6,068 00	\$0 00391

Table of Approximate Quantities, Lifts and Duties at Calf Pasture Pumping Station.

MONTH.	Total Pumpage. Gallons.	Average per Day. Gallons.	Minimum Day. Gallons.	Maximum Day. Gallons.	Average Lift. Feet.	Average Duty Foot- pounds per 100 Pounds of Coal.
<b>1920.</b>						
February . . . . .	3,199,150,384	110,315,530	96,646,074	139,976,680	40.3	78,200,000
March . . . . .	4,059,608,344	130,955,108	92,910,710	155,212,914	40.4	77,800,000
April . . . . .	3,335,820,820	111,194,027	88,714,130	147,324,828	40.3	84,500,000
May . . . . .	3,319,838,313	107,091,560	89,188,286	147,274,907	40.3	81,900,000
June . . . . .	3,518,666,702	117,288,890	95,553,922	134,974,642	40.4	74,700,000
July . . . . .	2,715,390,909	90,513,030	79,442,633	120,588,844	40.3	66,000,000
August . . . . .	2,854,037,767	92,065,734	80,767,936	114,432,621	40.3	65,900,000
September . . . . .	2,482,165,880	82,738,863	59,532,214	109,838,520	40.3	60,500,000
October . . . . .	2,523,868,038	81,415,098	62,579,851	128,914,135	40.3	78,100,000
November . . . . .	2,997,769,802	99,925,660	76,670,460	121,595,508	40.3	59,000,000
December . . . . .	3,772,271,464	121,686,176	98,525,088	130,087,144	40.4	68,000,000
<b>1921.</b>						
January . . . . .	3,685,246,788	118,878,929	98,026,648	131,075,580	40.4	68,100,000
<b>Totals . . . . .</b>	<b>38,463,835,211</b>	<b>1,264,068,605</b>	<b>1,018,557,952</b>	<b>1,581,296,323</b>		
<b>Averages . . . . .</b>	<b>105,380,370</b>	<b>105,339,050</b>	<b>93,813,213</b>	<b>131,774,694</b>	<b>40.3</b>	<b>* 71,900,000</b>

\* From yearly quantity.

## RECAPITULATION.

Total gallons pumps February 1, 1920 to	
February 1, 1921 . . . . .	38,463,835,000
Daily average . . . . .	105,380,000
Average dynamic head . . . . .	40.3
Foot-gallons . . . . .	1,550,092,559,000
Foot-gallons per 100 pounds coal . . . . .	8,505,100
Foot-pounds per 100 pounds coal . . . . .	71,900,000
Total coal for pumping (pounds) . . . . .	18,225,467

AMOUNT OF SLUDGE RECEIVED AND REMOVED FROM DEPOSIT  
SEWERS FROM FEBRUARY 1, 1920, TO JANUARY 31, 1921,  
INCLUSIVE.

Sludge in sewers February 1, 1920 . . . . .	1,178 cubic yards.
Received during the year . . . . .	2,508 " "
Total . . . . .	3,686 " "
Removed during the year . . . . .	2,971 " "
Sludge in sewers February, 1921 . . . . .	715 " "

Amount of Refuse Removed from Gatehouse from February 1,  
1920, to January 31, 1921, Inclusive.

MONTH.	Number Cheeses.*	Weights. (Pounds).
1920.		
February.....	249	55,029
March.....	245	54,145
April.....	135	29,835
May.....	174	38,454
June.....	175	38,675
July.....	219	48,399
August.....	228	50,388
September.....	221	48,841
October.....	250	55,250
November.....	170	37,570
Decembr.....	147	32,487
1921.		
January.....	142	31,382
Totals.....	2,355	† 520,455

\* Cheeses—Average, 221 pounds.

† 260 + 455—2000 tons.

## SANITARY SERVICE.

## FINANCIAL STATEMENT.

Appropriation, maintenance	\$1,528,698 71
Transferred from the appropriation for fuel, supplies, etc.	11,000 00
	<u>\$1,539,698 71</u>
Transferred to the appropriation for Sewer Service	30,182 88
	<u>\$1,509,515 83</u>
Expended during the year	1,508,102 71
Unexpended balance transferred to city treasury	<u>\$1,413 12</u>

## SPECIAL APPROPRIATION.

Land and Buildings, Sanitary and Street Cleaning Divisions, Dorchester.

Transferred from various appropriations	<u>\$13,500 00</u>
Execution of court paid to Boston Consolidated Gas Company for damages for land taken on South street, now Victory road, Dorchester, for a site for a garbage plant	<u>\$13,500 00</u>

## INCOME.

Statement showing amount of cash and bills deposited with the City Collector from February 1, 1920, to January 31, 1921, and credited to general revenue.

Tickets and bills for the removal of ashes and waste	\$82,312 33
Sale of manure	1,630 70
Removal of dead horses	224 00
Labor and materials	324 24
Old material sold	658 00
Collection of refuse on account of default of contractor	20,145 72
Overpayment under Workingmen's Compensation Act	407 34
Total	<u>\$105,702 33</u>

## AMOUNT PAID INTO THE CITY TREASURY DURING THE YEAR.

Removal of ashes and waste	\$83,164 30
Sale of manure	1,630 70
Sale of old material	658 00
Removal of dead horses	19 00
Labor and materials	51 03
Repayment of amount paid under Workingmen's Compensation Act, for injuries to employees	407 34
	<u>\$85,930 37</u>

**Total Cost of House Dirt, Waste, Rubbish and House Offal, 1920.**

Salaries of division engineer, supervisor and medical inspector	\$6,358 57
Office supplies and expenses, printing, stationery, etc.	4,259 06
Ashes, waste and rubbish account	1,008,222 10
House offal account	394,684 59
Annuities	\$300 00
Retired veterans' pensions	3,107 99
Retired laborers' pensions	14,117 72
	<hr/>
	17,525 71
Total	<hr/>
	\$1,431,050 03

**CONSTRUCTION REPAIRS AND HORSESHOEING ACCOUNT.**

Expended for labor	\$79,059 59
Expended for stock	25,066 58
	<hr/>
	104,126 17
	<hr/>
	\$1,535,176 20

**WORK DONE FOR OTHER SERVICES.**

Paving Service	\$6,788 63
Sewer Service	1,809 36
Street Cleaning Service	14,160 00
Water Service	4,315 50
	<hr/>
	27,073 49
	<hr/>
Total	<hr/>
	\$1,508,102 71

## Items of Expenditure for the Year 1920-21.

Salary, division engineer (in part).....	\$1,666 64
Salary, supervisor (in part).....	1,745 12
Salary, medical inspector (in part).....	1,083 33
Salary, chief veterinary (in part).....	837 48
Salaries, foremen.....	19,021 03
Salaries, yard clerks.....	1,769 52
Labor, collecting and disposing of house dirt and ashes.....	450,606 71
Labor, collecting and disposing of waste and rubbish.....	31,641 50
Labor, collecting and disposing of house offal.....	199,480 30
Labor and stock at stables and yards.....	66,952 81
Hired teams on ashes.....	104,832 17
Hired teams on offal.....	4,234 37
Contractor on ashes, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	208,856 84
Contractor on offal, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	85,809 97
Holidays, pay allowed.....	56,717 92
Vacations, pay allowed.....	27,068 27
Grain.....	41,157 30
Hay and straw.....	40,253 24
Medical attendance and pay allowed injured employees.....	10,084 14
Veterinary services and medicines.....	927 35
Outside wheelwright, blacksmith, horseshoeing, etc.....	13,559 56
Labor, stock and wheelwright, blacksmith, painting, etc.....	64,092 75
Repairs to stables and sheds.....	2,083 28
Fuel.....	3,432 05
Gas.....	532 85
Electric light and power.....	4,061 78
Printing, stationery, office supplies, etc.....	4,427 63
Automobile expense.....	4,371 06

AUTOMOBILES.	Division Engineer.	South Boston. Electric Truck.	Roxbury. Electric Truck.	Dorchester. Ford.	South End. Ford.	Total.
Cost.....	\$533 33				\$516 00	\$1,049 33
Supplies.....	32 69	\$54 76	\$61 12	\$94 87	250 34	493 78
Repairs.....		663 59	165 90	186 15	104 07	1,119 71
Tires and tubes.....			121 81	122 33	44 67	288 81
Gasolene.....				131 80	119 20	251 00
Chauffeurs' wages.....		554 23	554 20			1,108 43
Storage.....		60 00				60 00
Totals.....	\$566 02	\$1,332 58	\$903 03	\$535 15	\$1,034 28	\$4,371 06

Telephone tolls and rentals.....	742 43
Annuities.....	300 00
Retired veterans' pensions.....	14,117 72
Retired laborers' pensions.....	3,107 99
Horses.....	37,400 00
Rent.....	1,020 00
Tolls and fares.....	107 60
Total.....	\$1,508,102 71

*Construction and Repair Shops, 1920-21.*

For work done and materials furnished for other services and for the Sanitary Service the different shops received and expended the following amounts:

	STOCK AND LABOR.		Total.
	Other Services.	Sanitary.	
Wheelwright.....	\$4,259 11	\$14,538 00	\$18,797 11
Blacksmith.....	9,256 00	17,708 14	26,964 14
Paint.....	5,675 00	9,920 76	15,595 76
Harness.....	3,813 38	10,601 39	14,414 77
Horseshoeing — South End,	2,210 00	5,140 87	7,350 87
Horseshoeing — West End..	1,350 00	2,361 37	3,711 37
Horseshoeing — Roxbury...	510 00	1,090 06	1,600 06
Totals, stock and labor,	\$27,073 49	\$61,360 59	\$88,434 08

Foremen . . . . .	\$2,042 29	
Clerk . . . . .	407 88	
Stockkeeper . . . . .	1,443 47	
Express teamster . . . . .	1,210 46	
Allowed time, holidays . . . . .	5,489 94	
Allowed time, vacations . . . . .	2,585 43	
Medical attendance . . . . .	782 79	
Electric power . . . . .	647 36	
Auto truck . . . . .	1,055 27	
Incidentals . . . . .	27 20	
		15,692 09
Total cost, maintenance . . . . .		\$104,126 17
Income from other services . . . . .		27,073 49
Net cost of shops . . . . .		<u>\$77,052 68</u>

*Detailed Accounts of Amounts Paid to the Sanitary Service During Year Ending January 31, 1921, by the Payment of Bills and Pay Rolls.*

For repair and construction work . . . . .	\$23,175 80
For horseshoeing . . . . .	4,313 75
For hay, straw, grain and board and care of horses.	1,040 00
For feeders, stablemen and watchmen . . . . .	1,040 00
For furnishing of prison vans and painting . . . . .	46 66
	<u>* \$29,616 21</u>

\* Includes bill paid by the County of Suffolk for stock and labor, \$2,491.69; Printing Department, \$10.05; Stone's Express, \$40.98.



## Horseshoeing by Services.

KINDS AND STYLES.	Sanitary Service.	Street Cleaning and Oiling Service.	Paving Service.	Sewer Service.	Water Service.	County of Suffolk.	Totals.
Plain shoes.....	5,153	3,398	479	361	439	143	9,973
Bar shoes.....	270	221	23	108	41	13	676
Rim shoes.....	.....	27	.....	.....	2	.....	29
Leathers.....	4,435	2,943	203	189	201	74	8,045
Resets.....	1,407	1,081	119	128	117	41	2,893
Pads.....	62	309	97	31	36	51	592
Springs.....	2	.....	.....	.....	.....	.....	2

## Cost of Horseshoeing.

	Division Shops.	Outside Shops.
Stock.....	\$2,961 05	\$4,360 25
Labor.....	5,631 25	
Totals.....	\$8,592 30	\$4,360 25

## Amount Expended for the Collection and Disposal of Ashes, Garbage, Waste and Rubbish by Districts, 1920-21.

Districts.	Popu- lation.	ASHES.		GARBAGE.		WASTE AND RUBBISH.		Total Cost.	Total Cost per Capita.
		Cost.	Per Capita.	Cost.	Per Capita.	Cost.	Per Capita.		
1. South Boston.....	70,377	\$74,228 18	\$1.0548	\$25,332 15	\$0.3599	\$603 00	\$0.0085	\$100,163 33	\$1.4232
2. East Boston.....	63,662	30,753 05	0.4831	12,462 20	0.1957	.....	.....	43,215 25	0.6788
3. Charlestown.....	34,604	41,186 77	1.1902	13,587 81	0.3926	.....	.....	54,774 58	1.5828
4. Brighton.....	42,510	56,173 51	1.3214	4,482 39	0.1054	.....	.....	60,655 90	1.4268
5. West Roxbury.....	58,838	44,700 13	0.7597	18,760 65	0.3188	1,306 00	0.0222	64,766 78	1.1007
6. Dorchester.....	156,350	113,365 94	0.7251	74,541 79	0.4767	.....	.....	187,907 73	1.2018
7. Roxbury.....	124,352	173,838 72	1.3899	77,937 40	0.6269	2,952 25	0.0237	254,748 37	2.0405
8 and 9. South End and Back Bay...	113,715	202,384 71	1.7797	66,757 20	0.5871	38,049 39	0.3346	307,191 30	2.7014
10. North and West Ends.....	72,171	133,784 68	1.8585	24,006 43	0.3327	9,295 73	0.1289	167,086 84	2.3151
11. Hyde Park.....	18,734	8,327 98	0.4445	3,861 70	0.2061	.....	.....	12,189 68	0.6506
Disposal station.....	.....	74,595 51	.....	72,934 87	.....	2,676 55	.....	150,506 93	.....
Totals.....	755,313	\$933,339 18	.....	\$394,684 59	.....	\$54,882 92	.....	\$1,402,906 69	.....

## Force Employed on House Dirt and Ashes January 31, 1921.

CITY FORCE.	Number.	Hired Teams.	East Boston.	Brighton.	West Roxbury.	Dorchester.	Hyde Park.	Total.
Inspectors.....	29							29
Teamsters.....	92	22	6	9	6	19	2	156
Helpers.....	102	44	10	14	9	43	4	226
Dumpers.....	2							2
Totals.....	225	66	16	23	15	62	6	413

## Force Employed on House Offal January 31, 1921.

CITY FORCE.	Number.	Hired Teams.	East Boston.	Brighton.	West Roxbury.	Dorchester.	Hyde Park.	Total.
Inspectors.....	10							10
Teamsters.....	41	2	3	4	2	12	1	65
Helpers.....	43	4	3	5	3	24	2	84
Totals.....	94	6	6	9	5	36	3	159

## Force Employed on Waste and Rubbish January 31, 1921.

CITY FORCE.	Number.
Inspectors.....	1
Teamsters.....	11
Helpers.....	20
Total.....	32

## Amount of House Dirt and Ashes Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1916.....	238,261	795,862	324,313
1917.....	231,999	796,633	324,384
1918.....	217,823	776,645	316,482
1919.....	228,095	836,730	340,960
1920.....	238,646	891,042	363,097

## Amount of House Offal Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1916.....	48,329	118,770	70,075
1917.....	40,729	102,449	60,744
1918.....	39,494	96,317	56,836
1919.....	38,054	92,042	54,300
1920.....	40,881	100,865	59,507

## Amount of Waste and Rubbish Removed.

YEARS.	LOADS.		Cubic Yards.	Tons.
	Paper Carts.	Market Wagons.		
1916.....	4,302	7,031	79,909	10,744
1917.....	3,242	4,888	68,047	8,014
1918.....	3,186	4,823	64,221	7,546
1919.....	3,263	3,739	54,429	6,396
1920.....	3,794	2,717	47,949	5,641

## Number of Loads of Material Collected from February 1, 1916, to January 27, 1921.

YEARS.	Ashes.	Offal.	Rubbish.	Total Loads.	Tons.
1916.....	238,261	48,329	11,333	297,923	405,132
1917.....	231,999	40,729	9,073	281,801	393,132
1918.....	217,823	39,494	8,009	265,326	380,864
1919.....	228,095	38,034	7,002	273,151	401,656
1920.....	238,646	40,881	6,511	286,038	428,245

## Capacity of the Carts and Wagons Used by Sanitary Service, 1920.

	Pounds.	Cubic Feet.
Single ash carts.....	2,038	67.5
Double ash carts (city).....	4,075	135
Double ash carts (contractor).....	4,075	135
Paper carts.....	1,400	146
Paper wagons.....	2,200	219
Single offal wagons.....	2,260	54
Double offal wagons.....	4,130	94
Auto.....	8,150	270

## Collected by Contract.

DISTRICTS.	ASHES.				OFFAL.			
	Double Loads.	Auto Loads.	Cubic Yards.	Tons.	Double Loads.	Auto.	Cubic Yards.	Tons.
East Boston.....	10,433	.....	48,314	19,688	1,217	.....	4,816	2,841
Brighton.....	12,300	.....	56,886	23,181	1,368	162	5,975	3,525
West Roxbury.....	7,144	830	39,264	16,000	1,774	188	4,113	2,426
Dorchester.....	21,974	6,247	164,640	67,090	6,426	643	25,769	15,203
Hyde Park.....	2,725	1,062	19,307	7,867	636	.....	2,353	1,388
Totals.....	54,573	8,139	328,411	133,826	11,421	992	43,026	25,383

## Summary.

MATERIAL.	Cubic Yards.	Tons.
Ashes.....	328,411	133,826
Offal.....	43,026	23,383

Loads and Tonnage of Material Collected, by Districts.

CLASS OF REFUSE.	1. South Boston.	2. East Boston.	3. Charlestown.	4. Brighton.	5. West Roxbury.	6. Dorchester.	7. Roxbury.	8-9. South End and Back Bay.	10. North and West Ends.	11. Hyde Park.	Total Tons. (2,000 Pounds.)	Total Loads.	Cubic Yards.
House dirt and ashes:													
Loads.....	21,662	10,433	14,015	12,300	14,196	28,221	39,431	56,628	37,973	3,787	.....	238,646	891,042
Tons.....	24,852	19,688	14,278	23,181	23,789	67,090	63,453	63,308	49,591	7,867	363,097		
Offal:													
Loads.....	3,710	1,217	1,537	1,530	1,962	7,068	8,380	11,116	3,725	636	.....	40,881	100,865
Tons.....	4,378	2,841	1,813	3,525	2,426	15,203	10,421	13,116	4,396	1,388	59,507		
Waste and rubbish:													
Loads.....	203	.....	.....	.....	.....	.....	823	4,539	946	.....	.....	6,511	47,949
Tons.....	161	.....	.....	.....	.....	.....	658	3,782	1,040	.....	5,641		
Totals { Loads.....	25,575	11,650	15,552	13,830	16,158	35,289	48,634	72,283	42,644	4,423	428,245	286,038	1,039,856
{ Tons.....	29,391	22,529	16,091	26,706	26,215	82,293	74,532	80,206	55,027	9,255			

**Final Disposition of all Material, in Loads and Tons (2,000 Pounds),  
Collection by the Sanitary Service, February 1, 1920, to January  
27, 1921.**

CLASS OF REFUSE.	Boston Development and Sanitary Company.	Collected and Disposed of by Contractors.	Total Number of Loads Disposed of.	Total Tons.
House dirt and ashes .....	204,155 296,361	34,491 66,736	238,646 .....	363,097
Offal .....	35,536 49,327	5,345 10,180	40,881 .....	59,507
Waste and rubbish .....	6,511 5,641	..... .....	6,511 .....	5,641
Totals { Loads .....	246,202	39,836	286,038	
{ Tons .....	351,329	76,916	.....	428,245

NOTE.— First item, loads. Second item, tons.

## Cost of Collection and Disposal of Refuse by Contract in the City of Boston for the Year 1920-21.

Contract Districts and Population.	CHARACTER OF REFUSE.	Tons. (2,000 lbs.)	Total Tons.	Cost per Ton by Districts, Collection and Disposal.	Cost by Districts.			Where Disposed of.
					Cost.	Total Cost.	Total Cost per Capita.	
1. (63,662).....	(Mixed refuse, principally ashes (no kitchen wastes).....	19,688	.....	\$1 5671	\$30,753 05	.....	.....	Inland dumps.
	(Garbage, principally kitchen wastes.....	2,841	22,529	4 3872	12,462 20	.....	.....	*
2. (42,510).....	(Mixed refuse, principally ashes (no kitchen wastes).....	23,181	.....	Av. \$1 9182	\$56,173 51	.....	.....	Inland dumps.
	(Garbage, principally kitchen wastes.....	3,525	26,706	\$2 4232	4,482 39	.....	.....	*
3. (32,742).....	(Mixed refuse, principally ashes (no kitchen wastes).....	16,000	.....	1 2716	\$23,050 23	.....	.....	Inland dumps.
	(Garbage, principally kitchen wastes.....	2,426	18,426	Av. \$2 2712	8,038 45	.....	.....	*
4. (156,350).....	(Mixed refuse, principally ashes (no kitchen wastes).....	67,090	.....	3 3134	\$113,365 94	.....	.....	Boston Development and Sanitary Company.†
	(Garbage, principally kitchen wastes.....	15,203	.....	Av. \$1 6872	93,737 81	.....	.....	Inland dumps.
Hyde Park..... (18,734)	(Store refuse and paper.....	.....	.....	.....	.....	.....	.....	*
	(Mixed refuse, principally ashes (no kitchen wastes).....	7,867	.....	Av. \$2 5166	\$8,327 98	.....	.....	*
313,998	(Garbage, principally kitchen wastes.....	1,388	9,255	\$1 0713	3,861 70	.....	.....	*
	Totals.....	.....	159,209	Av. \$1 3171	.....	\$354,253 26	\$1 1282	

\* Removed beyond city limits and presumably fed to swine.

† Contract for disposal.

Total as above..... \$354,253 26  
Add total of day labor table (between pages 506 and 507)..... 1,153,849 45  
Net amount of appropriation..... \$1,508,102 71



**Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year ending January 31, 1921.**

Districts and Population	CHARACTER OF REFUSE	COST PER TON BY DISTRICTS.					COST OF DISTRICTS.						WHERE DISPOSED OF.
		Tons (2,000 lbs.)	Total Tons	To Collect.	For Disposal.	Total Collection and Disposal.	To Collect.	Total Cost to Collect.	For Disposal.	Total Cost of Disposal.	Total Cost of Collection and Disposal.	Total Cost per Capita, Collection, and Disposal.	
1 (70,377)	Mixed refuse, principally ashes (no kitchen wastes)	24,852		\$3 1023	\$0 0454	\$3.1497	\$77,100 43		\$1,127 75				Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes	4,378		6 0149		6 0149	26,332 15						Boston Development and Sanitary Company.
	Store refuse, principally paper	161		3 7453		3 7453	603 00						Boston Development and Sanitary Company.
			29,391	Av. \$3 5397	Av. \$0 0454	Av. \$3 5851		\$104,035 58		\$1,127 75	\$105,163 33	\$1 4943	
3 (34,604)	Mixed refuse, principally ashes (no kitchen wastes)	14,278		\$3 1647		\$3 1647	45,186 77						Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes	1,813		8 0462		8 0462	14,587 81						Boston Development and Sanitary Company.
			16,091	Av. \$3 7148		Av. \$3 7148		59,774 58			59,774 58	1 7274	
				Av. \$3 7148		Av. \$3 7148							
5 (part) and 7 150,448	Mixed refuse principally ashes (no kitchen wastes)	55,804		\$3 9151	\$0 0097	\$3 9548	\$220,153 55		\$542 00				Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes	12,847		7 6811		7 6811	98,679 60						Boston Development and Sanitary Company.
	Store refuse, principally paper	658		6 4715		6 4715	4,258 25						Boston Development and Sanitary Company.
			69,309	Av. \$4 6616	Av. \$0 0097	Av. \$4 6713		323,091 40		542 00	323,633 40	2 1511	
8 and 9 (113,713)	Mixed refuse, principally ashes (no kitchen wastes)	69,308		\$3 2406	\$0 0401	\$3 2807	\$224,005 29		\$2,779 42				Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes	13,116		5 7275	0 1246	5 8521	75,122 49		1,634 71				Boston Development and Sanitary Company.
	Store refuse, principally paper	3,782		10 0606		10 0606	28,049 39						Boston Development and Sanitary Company.
			86,206	Av. \$3 9182	Av. \$0 0535	Av. \$3 9717		337,777 17		4,414 13	342,191 30	3 0092	
10 (72,171)	Mixed refuse, principally ashes (no kitchen wastes)	49,501		\$3 0002		\$3 0002	\$148,754 68						Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes	4,396		5 6884		5 6884	25,006 43						Boston Development and Sanitary Company.
	Store refuse, principally paper	1,040		8 9381		8 9381	9,295 73						Boston Development and Sanitary Company.
			55,027	Av. \$3 3272		Av. \$3 3272		183,086 84			183,086 84	2 5368	
	Contract, Boston Development and Sanitary Company									140,000 00	140,000 00		
441,315	Totals		250,021	Av. \$3 9362	Av. \$0 5706	Av. \$4 5068		\$1,007,765 57		\$146,083 88	\$1,153,849 45	\$2 6145	

\* The amount paid to Boston Development and Sanitary Company is for disposal of all refuse collected by the city force and Dorchester contracts. District 6 on page 506.

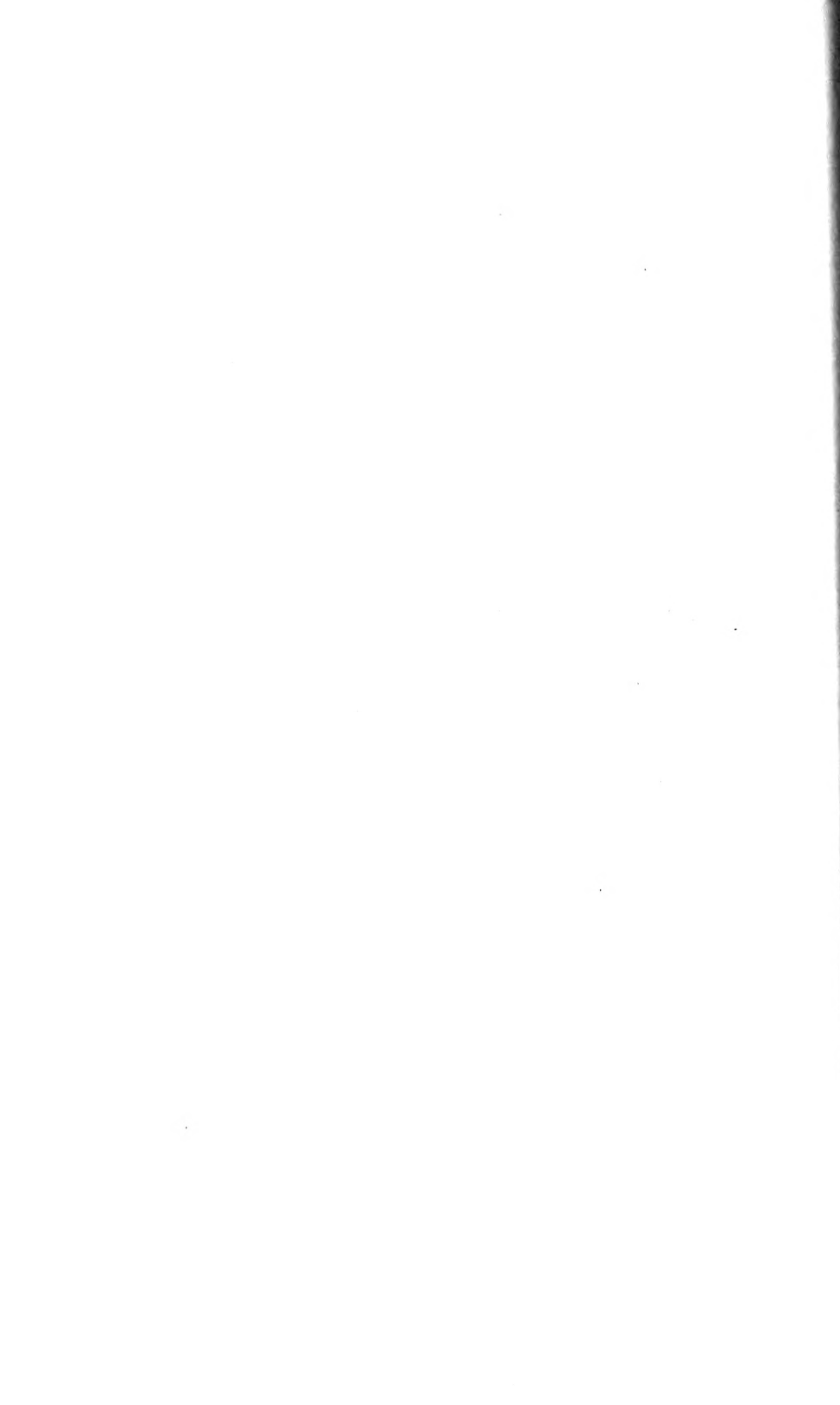
Total as above	\$1,153,849 45
Add total of contract table page 506	354,253 26
Net amount of appropriation	<u>\$1,508,102 71</u>

Boston Development and Sanitary Company's contract calls for \$152,000, less \$12,000 paid for Ward Street Dump.



Details of Collected Refuse in Boston for the Year Ending January 27, 1921.

District	Population	Number of Families	CARRIAGE										WASTE AND RUBBISH														COMBINED TOTALS OF WASTE, CARRIAGE, WASTE AND RUBBISH	
			CARRIAGE				WASTE AND RUBBISH						CARRIAGE				WASTE AND RUBBISH											
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			CARRIAGE				WASTE AND RUBBISH						CARRIAGE				WASTE AND RUBBISH											



Number of Carts, Wagons and Sleds Used by the Sanitary Service for the Collection of House Dirt and Ashes, Waste and Rubbish and Garbage During the Year Ending January 31, 1921.

DISTRICTS.	ASH CARTS.			OFFAL WAGONS.				PAPER.		CONTRACTORS.	
	WOOD.			IRON.		WOOD.		Carts.	Wagons.		
	Auto.	Single.	Double.	Single.	Double.	Single.	Double.				
1. South Boston.....	1	16		6		1		1	1	16	
3. Charlestown.....		12		3						9	
7. Roxbury.....		40	7	15	1	5	4	2	1	35	9
8. South End Shop.....		30		8	9		2	2	5		
10. North and West Ends.....		37		16	1	1	4	6	10	24	2
8 and 9. South End.....		45		8					2	5	
Total number used by Sanitary Service.....	1	180	7	56	11	7	10	11	19	89	11
IN USE BY CONTRACTORS.											
2. East Boston.....			4								
2. East Boston.....							3				
4. Brighton.....			9								
4. Brighton.....							3				
5. West Roxbury.....			6								
5. West Roxbury.....							4				
6. Dorchester.....	2		16								
6. Dorchester.....				2	11						
11. Hyde Park.....							2				
11. Hyde Park.....			2								
Totals.....	3	180	44	58	22	7	22	11	19	89	11
East Boston Contracting Co.											
H. Cannon.											
McMurtry Brothers.											
W. Griffin.											
J. J. Moore.											
M. H. Loomie.											
W. J. Hunt.											
T. H. Gorman.											
G. R. Tate.											
M. McGinness.											

East Boston Contracting Co.

H. Cannon.

McMurtry Brothers.

W. Griffin.

J. J. Moore.

M. H. Loomie.

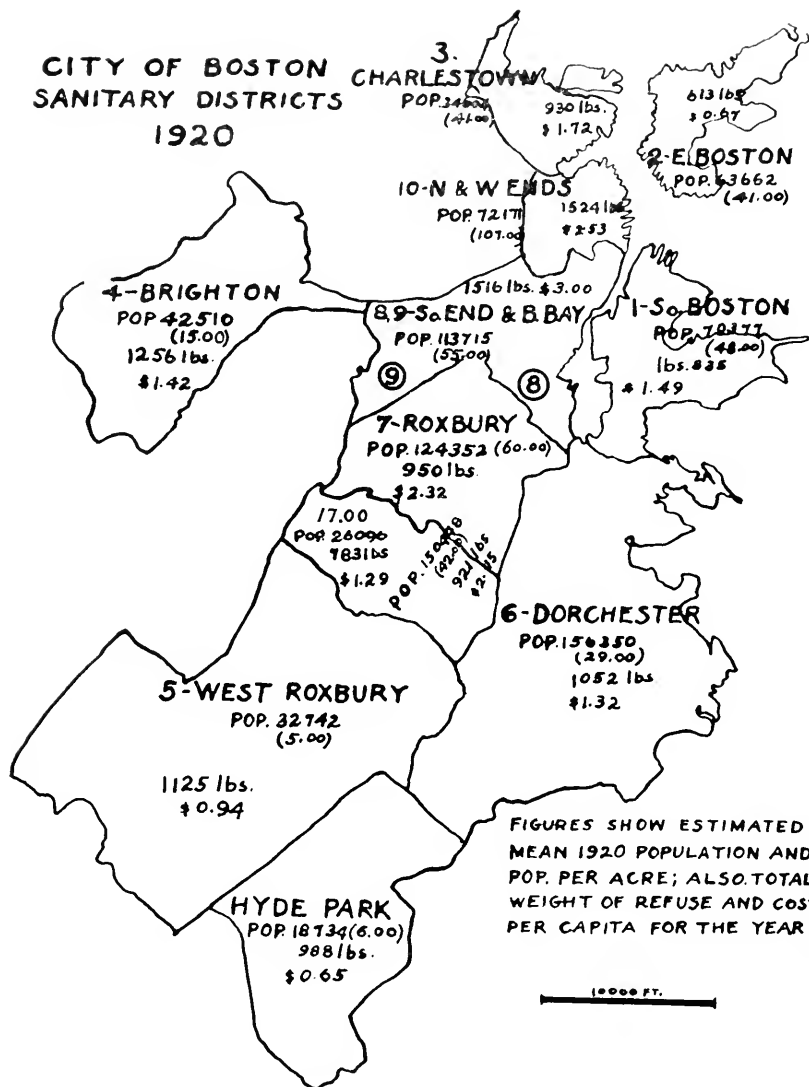
W. J. Hunt.

T. H. Gorman.

G. R. Tate.

M. McGinness.

# CITY OF BOSTON SANITARY DISTRICTS 1920



SEWER AND SANITARY DIVISION — STREET  
CLEANING AND OILING SERVICE.

## ITEM OF EXPENDITURE FOR YEAR 1920.

*Street Cleaning Service.*

General administration . . . . .		\$24,538 20
Salary of division engineer (in part),	\$1,486 67	
Salary of supervisor (in part) . . . . .	1,431 00	
Salary of medical inspector . . . . .	794 97	
Salary of veterinarian . . . . .	1,258 33	
Printing . . . . .	1,480 06	
Stationery . . . . .	323 10	
Telephone . . . . .	706 23	
Postage . . . . .	138 86	
Office items and incidentals . . . . .	374 85	
Automobile repairs and maintenance . . . . .	4,189 09	
Annuity, chapter 569, Acts of 1898,	508 33	
Pensions, retired veterans . . . . .	3,711 97	
Pensions, retired laborers . . . . .	8,134 74	
		<hr/>
General expenses other than general administration . . . . .		148,766 61
Wages of stablemen . . . . .	\$44,041 94	
Wages of yardmen . . . . .	5,525 26	
Wages of watchmen . . . . .	5,950 75	
Wages of foremen's drivers . . . . .	505 00	
Wages of yard clerk and messenger,	2,461 98	
Hay and straw . . . . .	30,725 42	
Grain . . . . .	34,327 02	
Gas . . . . .	35 40	
Electric light . . . . .	317 03	
Veterinary services and medicines . . . . .	687 13	
Horseshoeing . . . . .	7,089 42	
Harnesses, new and repairs . . . . .	3,639 83	
Wagon and carriage repairs . . . . .	982 49	
Stables and yards, rent of . . . . .	2,662 59	
Stables and yards, supplies . . . . .	3,067 01	
Stables and yards, building repairs,	1,945 48	
Fuel . . . . .	595 39	
Removing dead horse . . . . .	75 00	
Care of horses . . . . .	448 50	
		<hr/>
Carried forward . . . . .	\$145,082 64	\$173,304 81

<i>Brought forward</i> . . . . .	\$145,082 64	\$173,304 81
Automobile repairs and maintenance . . . . .	3,683 97	
Operating expenses . . . . .		623,529 24
District foremen, salaries of . . . . .	\$20,165 22	
Inspectors, wages of, on paved streets, crossings, snow work, patrolling, gutters, etc. . . . .	37,804 30	
Laborers, wages of, on paved streets, crossings, snow work, patrolling, gutters, etc. . . . .	339,762 30	
Laborers, wages of, on ashes and garbage . . . . .	63,894 25	
Hired autos and teams on paved streets, gutters, crossings, snow work, patrol, etc. . . . .	43,864 41	
Electric car flushers . . . . .	5,220 00	
Holiday pay allowed . . . . .	47,454 94	
Vacations . . . . .	19,399 18	
Pay allowed injured employees . . . . .	3,071 15	
Dumps, rent of . . . . .	257 15	
Snow licenses (part cost) . . . . .	500 00	
Cart repairs . . . . .	7,963 81	
Water cart repairs . . . . .	1,711 14	
Tool repairs . . . . .	736 42	
Vehicle supplies . . . . .	433 62	
Sweeping machines . . . . .	1,789 39	
Push carts and barrels . . . . .	1,093 16	
Hoes, shovels, picks, etc. . . . .	2,661 28	
Snow plows . . . . .	269 38	
Snow tractors (new) . . . . .	3,400 00	
Flushing machines . . . . .	262 38	
Push brooms, team brooms, handles, etc. . . . .	3,187 00	
Machine brooms . . . . .	4,803 75	
Calcide . . . . .	136 75	
Sand . . . . .	907 58	
Sand machines, barrels, etc. . . . .	465 02	
Elgin street sweeping machines, new, and repairs . . . . .	8,551 64	
Flushing hose . . . . .	433 82	
Paint . . . . .	53 69	
Miscellaneous . . . . .	75 33	
Refuse boxes . . . . .	364 54	
Food and carfares . . . . .	1,191 90	
Automobile repairs and maintenance . . . . .	1,644 74	
Total . . . . .		<u>\$796,834 05</u>



*Street Watering and Oiling Branch.*

General administration . . . . .		\$4,891 79
Salary of division engineer (in part),	\$180 00	
Salary of supervisor (in part) . . . . .	314 12	
Salary of general foreman . . . . .	1,877 17	
Telephone . . . . .	41 20	
Carfare . . . . .	15 90	
Execution of court . . . . .	1,000 00	
Advertising . . . . .	27 20	
Stationery . . . . .	70 92	
Printing . . . . .	324 89	
Postage . . . . .	30 48	
Proportionate share of supervisor's automobile . . . . .	646 14	
Proportionate share of division engineer's automobile . . . . .	273 42	
Automobile repairs and maintenance . . . . .	90 35	
		<hr/>
General expenses other than general administration . . . . .		860 01
Wages of stablemen, watchmen and yardmen . . . . .	\$152 13	
Veterinary services and medicine . . . . .	4 19	
Hay, straw and grain . . . . .	206 24	
Horseshoeing . . . . .	33 18	
Yard and stable, building repairs . . . . .	20 57	
Yard and stable, furnishings . . . . .	78 26	
Yard and stable, light and fuel . . . . .	9 00	
Yard and stable, rent . . . . .	12 31	
Wagons and carriage repairs . . . . .	23 35	
Automobile repairs and maintenance . . . . .	320 78	
		<hr/>
Operating expenses . . . . .		181,011 40
Chief inspector . . . . .	\$1,453 49	
Inspectors:		
Water distribution . . . . .	6,940 64	
Oil . . . . .	198 03	
Sanitary Service . . . . .	5,906 83	
Labor:		
Sanitary Service . . . . .	145 50	
Water . . . . .	517 91	
Calcide . . . . .	54 50	
Oil . . . . .	440 62	
Sanding . . . . .	260 00	
Holiday and allowed time . . . . .	261 07	
		<hr/>
Carried forward . . . . .	\$16,178 59	\$186,763 20

<i>Brought forward</i> . . . . .	\$16,178 59	\$186,763 20
Vacation . . . . .	643 45	
Hired teams, water distribution . .	67,918 57	
Car sprinkler, water distribution . .	5,291 00	
Road oil . . . . .	83,535 94	
Standpipes, repairs and maintenance . . . . .	3,416 25	
Tools and tool repairs . . . . .	5 52	
Water cart repairs . . . . .	303 00	
Electric hydrant repairs and maintenance . . . . .	2,266 23	
Bicycles, new, and repairs . . . . .	48 01	
Rent car siding . . . . .	100 00	
Gasolene . . . . .	1,121 82	
Auto oils, grease, etc. . . . .	183 02	
	<hr/>	
Total . . . . .		<u>\$186,763 20</u>

## DISTRIBUTION OF EXPENDITURES.

Removing snow . . . . .	\$76,632 74	
Snow work on crossings and gutters, . . . . .	20,170 30	
		\$96,803 04
Flushing streets . . . . .		51,252 96
Street patrolling by teams . . . . .	\$28,216 48	
Cleaning of subway passage . . . . .	1,591 08	
Street patrolling by push carts . . . . .	149,604 17	
Collection of refuse boxes . . . . .	6,534 54	
		185,946 27
Cleaning of paved streets . . . . .	\$262,688 99	
Cleaning of macadam gutters . . . . .	65,908 59	
Cleaning of public alleys . . . . .	4,851 75	
		333,449 33
Sanding of slippery streets . . . . .		4,329 95
Work performed for Sanitary Service . . . . .		125,052 50
Total expenditures, Street Cleaning Branch, . . . . .		\$796,834 05
Oiling of public streets and ways . . . . .		90,283 49
Watering of public streets and ways . . . . .		90,427 38
Sanitary Service . . . . .		6,052 33
Total . . . . .		<u>\$983,597 25</u>

## Summary.

ITEMS.	STREET CLEANING BRANCH.			STREET OILING AND WATERING BRANCH.		
	1918-19.	1919-20.	1920-21.	1918-19.	1919-20.	1920-21.
Labor . . . . .	\$450,061 95	\$527,877 17	\$608,491 42	\$16,684 62	\$20,567 53	\$19,887 03
Teaming . . . . .	26,371 88	47,339 31	49,084 41	45,357 64	53,912 03	73,209 57
Supplies and repairs . . . . .	126,994 61	123,602 40	139,258 22	80,167 87	47,674 82	93,666 60
Totals . . . . .	\$603,428 44	\$698,818 88	\$796,834 05	\$142,210 13	\$122,154 38	\$186,763 20

## Cost of Snow Work and Volume Removed.

DISTRICTS.	Snow Work and Gutters.	Snow Removal.	Total Cost. *	Single Loads Snow Removed. †	Cubic Yards Removed.	Cost per Cubic Yard Removed.
South Boston.....	\$1,506 23	\$1,442 23	\$2,948 46	503	1,509	\$0 955
East Boston.....	881 81	895 14	1,776 95	275	825	1 085
Charlestown.....	803 96	1,088 08	1,892 04	426	1,278	0 851
Dorchester.....	748 75	929 37	1,678 12	363	1,089	0 853
Roxbury.....	3,113 08	947 04	4,060 12	520	1,560	0 607
Uptown.....	897 93		897 93			
Downtown.....	1,117 41	25,973 87	27,091 28	11,779	35,337	0 735
Back Bay.....	131 29	2,457 98	2,589 27	1,521	4,563	0 538
North and West Ends.....	503 90	19,503 09	20,006 99	12,320	36,960	0 527
Patrol System.....	10,465 91	23,395 94	33,861 85	14,882	44,646	0 524
Totals.....	\$20,170 30	\$76,632 74	\$96,803 04	42,589	127,767	
Average.....						\$0 599

\* Includes Sundays, paid time and one half; holidays, double time.

† Street Cleaning loads, 3 cubic yards each.

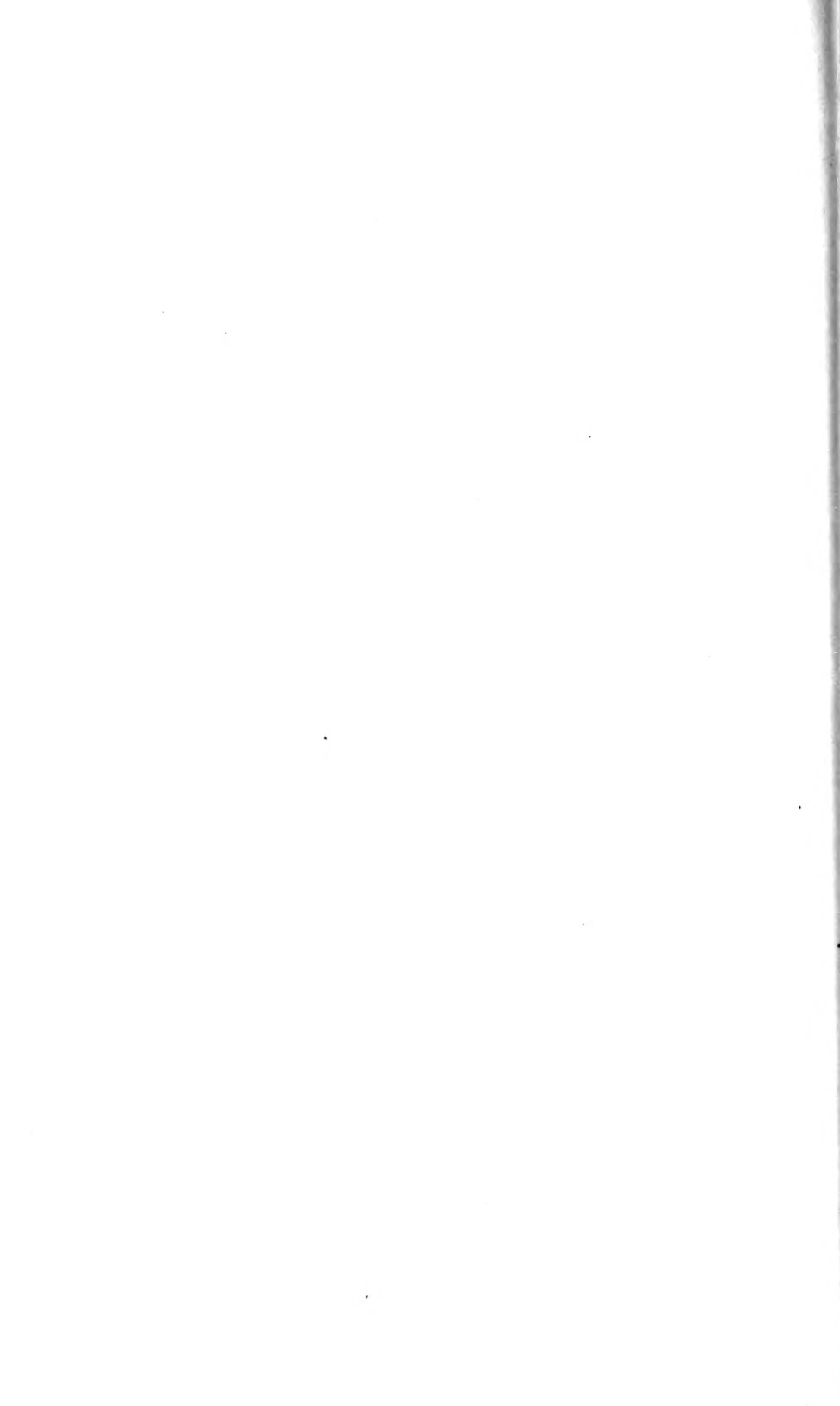
## Snow Summary.

ITEMS.	Cost of Inspection, Labor and Teaming.	Cost of all Other Charges.	Total Cost.	AMOUNT OF SNOW REMOVED.		Cost per Load.	Cost per Cubic Yard.
				Loads.	Cubic Yards.		
Snow removal.....	\$55,518 03	*\$17,711 71	\$73,232 74	42,589	127,767	\$1 799	\$0 521
Snow crossings and gutters.....	18,729 38	1,440 92	20,170 30				
Totals.....	\$74,247 41	\$19,155 63	\$93,403 04				

\* Cost of snow tractor bought for \$3,400 not included.

## Machine Sweeping of Paved Streets and Macadam Gutters.

Districts.	LOADS OF DIRT REMOVED.																				CUBIC YARDS OF DIRT REMOVED.														
	PAVED STREETS AND MACADAM GUTTERS.										PAVED STREETS AND MACADAM GUTTERS.										PAVED STREETS.				MACADAM GUTTERS.				PAVED STREETS AND MACADAM GUTTERS.						
	PAVED STREETS.					MACADAM GUTTERS.					PAVED STREETS AND MACADAM GUTTERS.					PAVED STREETS AND MACADAM GUTTERS.					PAVED STREETS.		MACADAM GUTTERS.		PAVED STREETS AND MACADAM GUTTERS.										
	Square Yards Cleaned Once.	Equivalent Mileage of 40 foot Paved Street Cleaned Once.	Square Yards Cleaned Once.	Mileage of 40 foot Paved Street Cleaned Once.	Square Yards Cleaned Once.	Inspection Labor and Teaming.	All other Charges.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Inspection Labor and Teaming.	All other Charges.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Inspection Labor and Teaming.	All other Charges.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Total Loads.	Cost per Load of Dirt Removed.	Total Loads.	Cost per Load of Dirt Removed.	Total Loads.	Cost per Load of Dirt Removed.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Cubic Yard Removed.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Cubic Yard Removed.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Cubic Yard Removed.
South Boston.	21,740,810	1,275.01	7,412,680	1,025.07	27,153,490	\$15,120.40	\$6,710.02	\$21,830.42	\$17.686	\$1.000	\$7,150.91	\$2,841.89	\$10,102.82	\$9.943	\$1.880	\$22,171.33	\$9,774.91	\$32,046.24	\$1.179	7,233	\$4.176	2,101	\$4.851	7,334	\$4.369	10,466	481	\$4.061	1,202	776	\$2.425	14,668	54	\$2.154	
East Boston.	8,440,903	171.71	7,251,777	976.35	15,692,680	9,990.68	5,700.01	15,690.69	12.777	1.899	9,126.75	1,574.06	14,681.01	22.193	1.203	19,120.03	9,924.97	29,031.00	2.402	3,027	5.077	3,032	4.512	6,059	4,794	6,054	724	2.54	6,064	1.863	2,256	12,118	1.042	2,397	
Charlestown.	17,460,192	980.47	1,841,799	318.77	19,301,991	13,866.10	7,800.809	21,725.90	21.074	1.253	5,251.31	1,191.71	8,391.07	21.078	1.556	19,117.11	10,999.31	30,116.95	1.572	2,919	7.442	1,062	7.90	3,981	7.816	5,838	337	3.721	2,124	1,153	1.95	7,962	415	3.908	
Dorchester.	1,290,540	242.58	1,017,119	213.07	2,307,659	6,211.25	2,748.06	8,959.32	32.823	2.009	9,011.21	1,662.45	1,666.66	18.179	1.502	9,218.47	4,050.51	13,268.98	2.039	1,576	5.708	1,048	1.395	2,618	5.182	3,140	737	2.834	2,096	1,583	2.198	5,236	1.12	2.591	
Roxbury.	29,071,241	1,741.52	1,108,087	778.00	30,179,328	13,966.28	6,172.01	20,137.27	13.287	774	13,326.94	1,021.18	12,731.09	16.688	5.107	25,992.17	7,796.19	32,888.36	1.068	3,888	5.176	9,755	1.406	13,646	2.41	7,776	291	2.589	12,510	1,726	653	27,242	896	1.205	
Uptown.	29,110,061	1,411.81	2,472,669	168.49	31,582,730	15,117.76	7,130.59	20,118.29	13.213	866	1,303.53	1,624.90	5,928.43	12.654	2.79	19,421.23	6,965.49	26,376.72	1.411	2,322	8.806	538	7.247	3,110	8.10	1,644	196	4.403	1,636	661	3.623	6,280	24	4.29	
Downtown.	72,300,000	4,199.00			72,300,000	48,527.05	25,780.80	64,317.85	15.70	892			38,527.95	25,780.80	64,317.85	892	8,580	7.408					8,580	7.406	17,160	238	3.718				17,160	238	3.718		
Back Bay.	10,512,915	790.02	2,806,157	512.87	13,319,072	5,557.16	2,516.03	8,101.75	14.28	768	6,281.92	2,517.61	8,749.53	16.117	3.652	11,789.58	5,063.70	16,853.28	1.236	835	9.704	1,122	7.798	1,937	9.611	1,670	158	1.852	2,244	783	1.899	3,914	291	4.305	
North and West End.	71,000,886	4,056.80			71,000,886	32,997.06	21,985.10	67,983.06	16.757	952			12,997.66	21,985.40	67,983.06	952	8,854	7.674					8,858	7.674	17,716	248	3.837				17,716	248	3.837		
Totals.	266,031,092	14,546.91	21,271,790	1,028.66	287,302,882	81,612,866.07	\$87,547.11	\$1,489,001.83			\$46,995.13	\$17,907.40	\$64,900.59			\$297,761.86	\$103,440.51	\$311,202.40		37,262		18,941		56,173		74,404				37,982			112,346		
Average.									\$17.111	\$1.000				\$15.96	\$1.022					\$1.133	\$6.685	\$3.394	\$5.575		2008	\$3.342		1.78	\$1.697			406		\$2.787	



# Cost of Maintaining Horses on a Basis of 365 Days per Year.

DISTRICTS.	SOUTH BOSTON.		EAST BOSTON.		CHARLESTOWN.		DORCHESTER.		ROXBURY.		SOUTH STABLE.		WEST STABLE.		TOTAL.	
AVERAGE NUMBER OF HORSES KEPT.	15.8		10.97		11.46		13.2		16.03		66.8		29.75			
ITEMS.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Total Cost per Year.	Cost per Horse per Day.	Total Cost per Year.	Cost per Horse per Day.	Cost per Horse per Year.
Labor.....	\$4,295 00	\$0 7441	\$2,330 90	\$0 5821	\$3,368 09	\$0 8053	\$4,326 00	\$0 8978	\$4,476 25	\$0 7476	\$14,252 45	\$0 5845	\$7,635 61	\$0 7031	\$40,684 33	\$0 6795
Hay and grain.....	5,518 56	0 9076	3,634 06	0 9076	5,291 11	1 2652	4,313 23	0 8952	6,431 28	1 0991	27,751 98	1 1594	12,591 05	1 1594	65,531 27	1 0945
Fuel.....	92 00	0 0159			138 66	0 0331	183 05	0 0379	83 95	0 0113					497 66	0 0083
Light.....	164 01	0 0281	61 93	0 0154	35 40	0 0084	45 34	0 0094	177 52	0 0303					484 20	0 008
Rent and taxes.....	575 00	0 0996	1,267 12	0 3164			150 00	0 0311							1,992 12	0 0332
Yard and stable repairs.....	107 77	0 0186			18 00	0 0043			386 88	0 0661	182 32	0 007			694 97	0 0116
Yard and stable furnishings.....	147 34	0 0255	197 74	0 0493	51 56	0 0123	34 70	0 0074	252 42	0 0431	1,003 41	0 0411	473 71	0 0427	2,160 88	0 36
Veterinary services and medicine.....	102 75	0 0178	90 00	0 0224	128 14	0 0306	281 02	0 058	121 31	0 0207	1,277 78	0 0524	397 15	0 0365	2,398 15	0 04
Horseshoeing and clipping.....	795 25	0 1377	685 50	0 1712	814 25	0 1947	596 50	0 1288	1,144 25	0 1955	3,404 50	0 1396	1,635 75	0 1506	9,076 00	0 1515
Totals.....	\$11,797 68	\$2 043	\$8,267 25	\$2 064	\$9,845 21	\$2 3541	\$9,929 84	\$2 0690	\$13,073 80	\$2 234	\$47,872 44	\$1 9634	\$22,733 30	\$2 0933	\$123,519 58	\$2 063

**OILING OF MACADAM STREETS.**  
**Showing Cost of Labor, Teaming, Oil, Etc., Including Supervision.**

DISTRICT.	Total Area, Square Yards.	Equivalent Mileage, 30-foot.	Area Oiled, Square Yards.	DATES OF OILING.		COST PER CUBIC YARD.	Total Cost.	Gallons Used.	Gallons per Square Yard.
				First.	Last.				
South Boston.....	386,715	21.97	149,869	May 28	Sept. 20	\$0 0457	\$6,856 44	35,820	.239
East Boston.....	468,877	26.64	304,850	June 3	Sept. 23	0208	6,357 52	35,774	.1173
Charlestown.....	159,219	9.04	102,993	June 3	Sept. 16	0269	2,771 19	17,820	.173
Brighton.....	725,566	41.22	199,517	June 1	Sept. 25	0337	6,736 56	35,370	.1772
West Roxbury.....	1,396,282	79.33	330,520	June 1	Sept. 29	0337	11,164 62	60,738	.1837
Dorchester.....	1,753,111	99.61	406,936	June 2	Oct. 5	0388	15,838 50	87,514	.215
Roxbury.....	1,020,542	57.99	516,397	May 27	Sept. 28	0261	13,480 76	73,375	.142
South End, Back Bay and part of Roxbury.....	370,203	21.07	203,594	May 27	Sept. 20	0383	7,815 36	41,576	.2042
Hyde Park.....	368,213	20.92	227,513	June 1	Sept. 21	0378	8,624 01	46,602	.2083
Totals.....	6,648,728	377.79	2,442,189	.....	.....	.....	\$79,644 96	434,589	.1779
Averages.....	.....	.....	.....	.....	.....	\$0 0326	.....	.....	.....



## AREA WATERED 1920.

Showing Area Watered, Total Cost and Cost per Square Yard.

District.	Total Square Yards.	Equivalent Mileage 30-foot Roadway.	DATES OF WATERING.		Auto Days Worked. (Hired.)	Cart Days Worked.	Total Cost	Cost per Square Yard.
			First.	Last.				
South Boston.....	496,087	28.186	April 18	Nov. 21	26	560½	\$9,733 62	\$0 019
East Boston.....	192,828	10.956	Apr. 20	Nov. 2	.....	238½	2,663 47	014
Charlestown.....	275,954	15.679	Apr. 18	Oct. 27	.....	362	4,330 46	015
Brighton.....	148,240	8.422	Apr. 19	Nov. 21	.....	449½	6,135 29	041
West Roxbury.....	187,570	10.657	Apr. 11	Nov. 21	.....	513½	8,531 93	046
Dorchester.....	247,295	14.05	Apr. 19	Nov. 21	26½	560½	7,916 12	032
Roxbury.....	282,544	16.053	Apr. 16	Nov. 21	.....	820½	13,288 95	047
South End and part of Roxbury.....	636,710	36.125	Apr. 18	Nov. 21	.....	511½	11,921 67	019
City Proper.....	545,720	31.006	Apr. 16	Nov. 20	598½	.....	2,1745 24	039
Hyde Park.....	82,400	4.113	Apr. 18	Nov. 21	.....	329	4,016 74	049
Totals.....	3,095,348	175.247	.....	.....	651½	4,345½	\$90,283 49	
Average.....			.....	.....	.....	.....		\$0 029

**Oil Bought During 1920.**

	Gallons.	Cost.
American Oil Products Company *.....		\$9,638 53
M. E. Lemery Company †.....		1,000 00
Alden Spears Sons Company.....	94,664	15,619 59
Mace Moulton, Jr., Inc.....	339,925	58,277 82
Totals.....	434,589	\$84,535 94

\* Oil bought and used in 1919, payment withheld until 1920.

† Execution of Court. Oil bought and used in 1917 but not paid for.

Net cost of oil bought and used in 1920, \$73,897.41.

## Automobile Expenditures for 1920.

AUTOMOBILES.	Supervisor.	General Foreman.	Chief Inspector.	FOREMEN'S AUTOS.					Division Engineer.	Garford Truck 5206.	Elgin 5207 (old).	Elgin (new).	Snow Tractor.	Auto 22452.
				East Boston.	Charles-town.	Dorchester.	Roxbury.	Patrol System.						
Purchase.....					\$226 00	\$571 00	\$496 00		*\$533 33			\$7,450 00	\$3,100 00	
Registration.....	\$10 00		\$10 00	\$10 00	10 00	10 00	10 00	\$10 00			\$2 00	2 00		
Chauffeurs' licenses.....				1 00	2 00	2 00								
Storage.....	180 00	\$67 50							60 00	\$100 00				
Supplies.....	49 67	2 00	23 23	15 16	9 50	10 00	5 36	16 52	23 28	5 45				
Gasoline and oils.....	589 15		140 91	155 36	148 68	159 25	194 85	477 17	4 77	250 71	162 51	5 56		
Tubes, tires, cases, new.....	448 37	20 95	153 80	16 62		15 76	251 91	153 63	139 87	449 57		117 92		\$191 45
Tubes, tires, cases, repairs.....	21 45		7 35	1 70	11 00	9 55	9 65							
Engine and body repairs.....	1,117 05		111 81	79 57		49 41	173 26	197 24	244 75	352 59	681 76	25 00		
Freight.....												146 26		
Towing.....	10 00													
Chauffeur.....	864 00								513 00					
Totals.....	\$3,589 66	\$60 45	\$450 10	\$279 41	*\$707 13	*\$826 97	*\$1,141 03	\$854 50	*\$1,518 91	\$1,458 32	\$815 27	*\$7,746 74	*\$3,400 00	\$191 45

\* Includes price paid for new machines.

## APPENDIX E.

REPORT OF THE DIVISION ENGINEER  
OF THE WATER DIVISION.

February 1, 1921.

*To the Commissioner of Public Works:*

I respectfully submit the following report of the operations, income and expenditure of the Water Division for the past year.

For the third successive year there has been practically no development of new territory and but little building construction; consequently the work of this division has been principally confined to the maintenance and improvement of the existing system with a comparatively small amount of extension of mains, largely to afford sprinkler and fire pipe service.

Relaying to improve fire protection and relaying in advance of permanent street construction account for most of the pipe laid during the year. These two classes of work are of vital importance and will be a continued cause for expenditure in the future.

Some of the more important work done was as follows:

On account of the development of the state property on the South Boston Flats, 892 linear feet of 30-inch pipe, laid in Danby and D streets in 1897, were abandoned and relaid in Claffin and C streets; in the same connection, 2,178 linear feet of 12-inch pipe were laid in D, Claffin and Bullock streets.

Twenty-six hundred linear feet of 16-inch pipe were laid in Poplar, Florence and Ashland streets, West Roxbury. This line, when completed, will connect the distribution systems of Dorchester and West Roxbury and will form a valuable crosstown supply.

Relaying for improvement of fire protection was carried out in the city proper, Brighton, West Roxbury, Dorchester and Hyde Park districts, the new mains laid replacing pipes thirty to sixty years old.

Waste surveys of Charlestown and the Brighton high service area were completed by the Pitometer Company

of New York, and a similar survey is now in progress in South Boston and the South End. The contract cost of the Charlestown survey was \$3,800 and resulted in a permanent annual reduction in Boston's share of the metropolitan water assessment of \$3,436. The contract cost of the Brighton survey was \$2,500 and resulted in a yearly saving of \$733.

The following contracts for cleaning mains were carried out by the National Water Main Cleaning Company of New York:

Nine thousand five hundred thirty-two linear feet of 12-inch and 16-inch mains were cleaned in South Boston and in Pearl street, City Proper.

Fourteen thousand five hundred linear feet of 6-inch and 8-inch mains were cleaned in Jamaica Plain.

A large amount of regulating work was done in different streets in advance of permanent paving, notably in Centre and Washington streets, West Roxbury; in the first-named street, 500 linear feet of 24-inch main were raised in place, 1,600 linear feet of 12-inch main were relaid, replacing old pipe, and a large number of hydrants and services were regulated. This class of work constitutes one of the severe demands upon the resources of the maintenance force of the Water Division.

The regular work of the Distribution Branch, consisting of repairing leaks, establishing fire and service pipes, freeing stoppages, shutting off and letting on water, repaving, etc., taxed the resources of the branch to the utmost.

The standpipe at Orient Heights was cleaned and painted and the wooden house inclosing it was also painted and repaired.

The pipe bridge over the New York, New Haven & Hartford Railroad was repaired, cleaned and painted.

The pipe bridge on Berkeley street was repaired.

During the reconstruction of Warren Bridge the 30-inch, 20-inch and 16-inch mains located on it are being regulated. These pipes of late years have given a great deal of trouble, owing to the unsafe condition of the timbers supporting them.

A notable advance has been made in the substitution of a post hydrant of compression type for our regulat type, which has always opened with the pressure. The particular advantage of the new type is that when broken off the possibility of free flow through the hydrant is practically eliminated, as the foot valve which opens

against the pressure will usually either entirely stop, or at the worst, partially stop the flow of water.

The work of the Meter Branch is rapidly increasing as the number of meters in the service multiplies. Approximately 3, 300 new meters have been set, 8,300 have been changed and reset and 6,900 have been repaired during the year.

Further detailed information regarding operations of the different branches of this division will be found in the tables published herewith.

Respectfully submitted,

F. A. McINNES,  
*Division Engineer.*

## WATER DIVISION, 1920-21.

## FINANCIAL STATEMENT.

## RECEIPTS.

Sales of water . . . . .	\$3,364,937 04
Elevator, fire, motor, stand pipes and repairs . . . . .	21,626 36
Service pipes and repairs . . . . .	18,921 85
Sales of old materials . . . . .	10,593 18
Fees for summonses . . . . .	4,285 55
Labor, materials, etc., for miscellaneous work . . . . .	4,154 92
Interest on bank deposits . . . . .	944 86
Board of horses . . . . .	913 75
Shutting off and letting on water for nonpayment . . . . .	850 20
Damages to automobiles . . . . .	545 33
Relocation of hydrants and pipe . . . . .	469 28
Damages to hydrants . . . . .	404 32
Sales of merchandise . . . . .	291 69
Raising gate boxes . . . . .	119 07
Rent of conduit, Congress street . . . . .	100 00
Rent of high pressure yard . . . . .	90 00
Sale of booth . . . . .	90 00
Testing meters . . . . .	83 81
Sale of old tires . . . . .	62 50
Damages to wagons . . . . .	33 56
Filling water tanks . . . . .	8 48

Total receipts from all sources . . . . . \$3,429,535 75

Transferred to City Loan account to pay Hyde Park water debt . . . . .	\$16,000 00
Transferred to credit of Collecting Department . . . . .	33,570 54
Transferred to City Loan account to pay general city debt . . . . .	193,958 26
	<hr/> 243,528 80
	<hr/> <u>\$3,186,006 95</u>

## EXPENDITURES.

Current expenses and extensions . . . . .	\$1,253,166 33
Interest on water loans . . . . .	45,874 33
Refunded water rates . . . . .	1,041 38
Metropolitan water assessment . . . . .	1,885,924 91
	<hr/>
Total expenditures . . . . .	<u>\$3,186,006 95</u>

Details of expenditures under appropriation for current expenses and extensions for the fiscal year ending January 31, 1921:

EXTENSION.		
Construction of new mains . . . . .	\$101,594 76	
Replacement of old mains . . . . .	119,225 95	
New hydrants . . . . .	5,429 67	
Total extension . . . . .		\$226,250 38
MAINTENANCE.		
Office and Engineering Branch:		
Salaries and wages . . . . .	\$49,734 16	
Traveling expenses . . . . .	827 93	
Printing, stationery and postage . . . . .	1,879 30	
Miscellaneous . . . . .	619 94	
		\$53,061 33
Income Branch:		
Salaries and wages . . . . .	\$121,328 08	
Traveling expenses . . . . .	1,791 75	
Printing, stationery and postage . . . . .	4,838 71	
Miscellaneous . . . . .	950 19	
		128,908 73
Distribution Branch:		
Salaries and wages . . . . .	\$29,133 85	
Traveling expenses . . . . .	407 25	
Printing, stationery and postage . . . . .	1,523 57	
Miscellaneous . . . . .	1,896 81	
		32,961 48
Meter Branch:		
Salaries and wages . . . . .	\$15,069 16	
Traveling expenses . . . . .	107 48	
New meters and setting . . . . .	19,259 05	
Meters, repairing, resetting, testing, etc. . . . .	19,211 10	
Printing, stationery and postage . . . . .	742 70	
Shops . . . . .	16,760 02	
Investigations . . . . .	1,084 09	
Holiday . . . . .	4,235 96	
Laborers' vacations . . . . .	1,442 13	
Miscellaneous . . . . .	845 81	
		78,757 50
Waste Prevention Branch:		
Salaries and wages . . . . .	\$8,940 88	
Traveling expenses . . . . .	387 35	
Printing, stationery and postage . . . . .	58 10	
Miscellaneous . . . . .	71 30	
		9,457 63
Inspection of castings . . . . .	997 09	
Damages . . . . .	41,214 53	
Carried forward . . . . .	\$345,358 29	\$226,250 38



<i>Brought forward</i>	\$345,358 29	\$226,250 38
Yards	54,634 46	
Shops	22,075 95	
Stables:		
Labor	\$10,484 38	
Hay and grain	8,523 35	
Vehicle repairs	3,125 10	
Horseshoeing	1,287 48	
Veterinary services and supplies	538 27	
Board of horses	455 55	
Harness repairs	227 47	
Building repairs	153 64	
Light	68 77	
Coal	52 75	
Miscellaneous	151 48	
	<hr/>	
Tools and repairs	25,068 24	
Main pipe relocation	16,143 58	
Main pipe repairs	30,938 58	
Service pipes, new	70,330 11	
Service pipes, changes in size and location	26,551 93	
Service pipes, repairs	8,932 18	
Hydrant changes in style and location	71,918 46	
Hydrant repairs	24,562 58	
Water posts, new	40,398 89	
Water posts, changes in location	112 83	
Water posts, repairs	243 41	
Fountains, new	1,218 45	
Fountains, changes in style and location	198 63	
Fountains, repairs	359 43	
Fountains, furnishing ice	4,341 09	
Holiday	1,004 62	
Investigations	38,213 23	
Shutting off and letting on water	1,774 35	
Accommodation work	22,194 14	
Work on account of Office and Engineers' Branch (by Distribution Branch)	2,621 26	
Work on account of Income Branch (by Distribution Branch)	377 23	
Work on account of Meter Branch (by Distribution Branch)	971 81	
Work on account of Waste Prevention Branch (by Distribution Branch)	960 16	
Work on account of new meters (by Distribution Branch)	6,682 64	
Work on account of meter repairs (by Distribution Branch)	2,392 96	
Launch "Water Crest," repairs and supplies	7,450 99	
Pensions paid Civil War veterans	2,044 40	
Pensions paid retired laborers	6,517 01	
Vacations allowed laborers, mechanics, etc.	19,464 59	
Compensation allowed injured employees	15,120 40	
Emergency service	1,457 72	
Harbor service	28,565 68	
Taxes	57 84	
Medical inspector	252 80	
Bridge Service	500 00	
Breed's Island tower	131 93	
Pitomer waste surveys	2,248 76	
	9,133 33	
<i>Carried forward</i>	<hr/>	
	\$913,524 94	\$226,250 38

<i>Brought forward</i> . . . . .	\$913,524 94	\$226,250 38
East Boston reservoir . . . . .	196 00	
Garage . . . . .	3,628 12	
Automobiles . . . . .	31,600 80	
	<hr/>	
Total maintenance . . . . .		948,949 86
Merchandise sold . . . . .	\$5,471 13	
Stock consigned to junk . . . . .	742 21	
	<hr/>	
Stock purchased . . . . .		6,213 34
		<hr/>
		313,483 64
		<hr/>
		\$1,494,897 22
Less stock used and disposed of . . . . .		241,730 89
		<hr/>
Total expenditures from appropriation for Current		
Expenses, etc . . . . .		\$1,253,166 33
		<hr/>

Comparative Table of Receipts and Expenditures.

## Receipts.

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
Sales of water .....	\$2,906,569 76	\$2,917,210 88	\$2,923,719 00	\$2,859,707 92	\$3,037,974 66	\$2,872,807 89	\$2,998,922 73	\$3,214,542 57	\$3,364,937 04
Other receipts .....	75,974 49	84,389 48	69,922 86	84,977 77	71,374 55	79,223 75	50,529 81	51,111 33	64,598 71
	\$2,982,544 25	\$3,031,600 36	\$2,993,641 95	\$2,944,685 69	\$3,109,349 21	\$2,952,091 64	\$3,049,452 54	\$3,268,653 90	
Transfers by City Auditor .....						* 1,826 39			
	\$2,982,544 25	\$3,031,600 36	\$2,993,641 95	\$2,944,685 69	\$3,109,349 21	\$2,956,918 03	\$3,049,452 54	\$3,268,653 90	\$3,429,535 75
Balance, beginning of year .....	\$64,521 97	\$271,580 51	\$310,819 49	\$184,470 24	\$135,014 40	\$87,116 19	\$25,087 31	† 33,487 83	
Balance, end of year .....	274,580 54	310,819 49	† 184,470 24	† 135,014 40	† 87,116 19	† 25,087 31	† 3,487 83		
Transferred to Collecting Department .....				24,500 00	23,774 00	27,294 14	26,165 88	30,317 74	33,570 51
Transferred to city loan account .....	4,431 20	17,000 00	355,650 26	259,016 70	407,823 86	16,000 00	124,263 96	300,095 22	209,958 26
Transferred to appropriation for service mains and relaying mains .....		200,000 00	200,000 00			35,000 00	30,000 00		

## Expenditures.

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
Current expenses .....	† \$835,072 00	\$899,338 91	\$894,170 14	\$901,435 19	\$917,823 61	\$1,015,543 65	\$1,055,812 87	\$1,010,631 32	\$1,253,166 33
Service and relaying mains .....		85,945 40	128,584 36	49,455 84	47,868 21	97,058 88	51,599 48	3,187 83	
Metropolitan water assessment .....	1,792,123 83	1,812,127 65	1,676,038 11	1,665,006 20	1,669,432 79	1,752,004 76	1,711,008 81	1,805,101 07	1,885,924 91
Interest .....	137,875 37	118,673 48	94,615 02	91,259 22	87,866 59	80,494 28	71,268 00	61,162 73	45,874 33
Refunded water rates .....	2,680 28	1,275 97	933 31	738 38	628 33	611 20	962 99	1,339 82	1,011 38
	\$2,767,751 48	\$2,918,361 41	\$2,794,340 94	\$2,710,594 83	\$2,723,619 56	\$2,975,712 77	\$2,929,682 18	\$2,881,728 77	\$3,186,006 95

\* Transfer from Reserve Fund.

† Balance of appropriation for service mains and relaying mains.

‡ Amount expended for current expenses and extensions; there being one appropriation only.

## COST OF CONSTRUCTION AND CONDITION OF WATER DEBT.

Cost of construction to February 1, 1921 . . . . .	\$18,223,558 93
Cost of construction to February 1, 1920 . . . . .	18,063,411 64
 * Increase during the year . . . . .	 <u>\$160,147 29</u>
Outstanding loans February 1, 1920, at 3½ per cent . . . . .	\$5,000 00
Outstanding loans February 1, 1920, at 4 per cent . . . . .	816,350 00
	<u>\$821,350 00</u>
Outstanding loans February 1, 1921, at 3½ per cent . . . . .	\$5,000 00
Outstanding loans February 1, 1921, at 4 per cent . . . . .	741,350 00
	<u>746,350 00</u>
 Decrease during the year . . . . .	 <u>\$75,000 00</u>
 The Water Sinking Fund February 1, 1920, was . . . . .	 \$821,350 00
The Water Sinking Fund February 1, 1921, was . . . . .	746,350 00
	<u>\$75,000 00</u>
 Decrease during the year . . . . .	 <u>\$75,000 00</u>
Net Water Debt February 1, 1920 . . . . .	\$336,000 00
Gross Water Debt February 1, 1921 . . . . .	\$1,060,350 00
Less Sinking Fund February 1, 1921 . . . . .	746,350 00
	<u>314,000 00</u>
Net Water Debt February 1, 1921 . . . . .	314,000 00
 Decrease during the year . . . . .	 <u>\$22,000 00</u>
 Stock on hand February 1, 1921 . . . . .	 \$423,096 00
Stock on hand February 1, 1920 . . . . .	323,370 98
	<u>\$106,725 02</u>
Increase during the year . . . . .	<u>\$106,725 02</u>
Cochituate Water Sinking Fund receipts, 1920-21:	
Interest on investments . . . . .	\$24,933 66
Interest on bank deposits . . . . .	5,870 22
	<u>\$30,803 88</u>

\* The actual increase in the cost of construction was \$226,250.38, but on account of the transfer of the East Boston reservoir, its cost, \$66,103.09, is deducted, making a net increase of \$160,147.29.

Cost of existing works on January 31, 1921:

Pipe yards and buildings . . . . .	\$94,832 16
Engineering expenses . . . . .	57,873 58
Distribution system (additions during year, \$226,250.38),	17,602,853 19
Hyde Park waterworks . . . . .	468,000 00
	<hr/>
	\$18,223,558 93

The East Boston reservoir was transferred to the custody of the Park and Recreation Department April 5, 1920, and its cost is therefore eliminated from the above table. (See order of City Council, approved March 23, 1920.)

## Automobiles.

Dept. No.	Description.	Price.	Registration, Licenses, Numbers.	Tires and Tubes, New and Repairs.	Gasoline, Oils, Greases, etc.	Storage.	Repairs and Supplies, etc.	Chauffeurs' Wages.	Heat and Light.	Totals.
83	Truck emergency service.....	.....	\$2 00	\$448 51	\$550 53	.....	\$418 25	\$4,131 00	.....	\$5,550 29
96	Truck, general work.....	.....	2 00	518 50	610 00	.....	307 68	1,377 00	.....	2,815 18
98	Truck, shutoff gang <sup>1</sup> .....	.....	.....	51 51	111 12	.....	105 55	.....	.....	328 18
99	Truck, spare.....	.....	6 50	23 91	152 00	\$36 00	510 52	.....	.....	758 93
100	Roadster, engineer in charge.....	.....	10 00	212 94	259 90	.....	748 31	1,377 00	.....	2,608 15
103	Runabout, foreman Dorchester dis- trict <sup>2</sup> .....	.....	1 00	41 21	56 32	.....	126 09	.....	.....	221 62
104	Truck, general work <sup>3</sup> .....	.....	2 00	26 02	139 10	.....	81 07	.....	.....	248 19
105	Runabout, foreman Brighton district <sup>4</sup> .....	.....	.....	18 14	57 66	81 00	111 12	.....	.....	270 92
108	Truck, shutoff gang.....	.....	2 00	55 48	302 13	.....	324 72	1,377 00	.....	2,031 33
109	Runabout, foreman West Roxbury dis- trict <sup>5</sup> .....	.....	1 00	80 82	75 27	108 00	123 62	.....	.....	388 71
110	Roadster, superintendent distribution branch.....	.....	12 00	80 13	85 57	.....	219 49	.....	.....	397 19
111	Truck, Dorchester district.....	.....	2 00	250 90	326 40	2 00	290 33	1,377 00	.....	2,188 63
112	Truck, meter branch <sup>6</sup> .....	.....	.....	.....	.....	.....	13 94	.....	.....	13 94
113	Truck, general work <sup>7</sup> .....	.....	.....	1 06	20	.....	65 29	.....	.....	66 55
114	Truck, meter branch <sup>8</sup> .....	.....	2 00	54 91	106 78	.....	241 20	.....	.....	404 89
116	Truck, general work.....	.....	2 00	46 81	237 30	.....	350 63	1,377 00	.....	2,013 74
117	Runabout, general foreman <sup>9</sup> .....	.....	2 00	52 89	283 00	.....	221 05	.....	.....	558 94
118	Truck, Hyde Park district.....	.....	4 00	.....	31 50	120 00	6 82	.....	.....	162 32
119	Runabout, engineer meter branch <sup>10</sup> .....	.....	.....	62 76	185 43	.....	27 22	.....	.....	275 41
120	Truck, meter branch <sup>11</sup> .....	.....	.....	.....	7 25	.....	33 48	.....	.....	40 73
121	Truck, general work.....	.....	2 00	439 43	380 03	.....	499 01	1,377 00	.....	2,697 47
122	Truck, plumbers.....	.....	4 00	108 97	244 38	.....	355 20	.....	.....	712 55
125	Roadster, division engineer.....	.....	10 00	150 32	142 51	248 25	426 16	.....	.....	977 24
126	Truck, West Roxbury district.....	.....	2 00	72 26	177 02	.....	404 71	.....	.....	655 99
128	Touring car, engineer, District No. 1.....	.....	17 00	113 06	248 76	.....	240 91	.....	.....	619 73
129	Truck, East Boston district.....	.....	4 00	.....	114 55	.....	55 89	.....	.....	174 41

		2 00	127 19	420 61	229 07	1,377 00	2,155 87
130	Truck, general work.....						
131	Touring car v.....	2 00	63 00	146 53	71 04		282 57
132	Truck, general work.....	2 00	33 80	251 68	355 60	1,377 00	2,020 08
133	Truck, meter branch.....	4 00	188 96	281 50	168 27		642 73
134	Truck, meter branch.....	4 00	175 21	233 98	74 58		487 80
135	Truck, Brighton district.....	7 00	29 48	182 05	39 12		257 65
136	Truck, West Roxbury district.....	5 50	185 37	123 83	91 77		514 47
137	Truck plumbers.....	5 00	134 98	349 06	212 17		701 21
138	Truck, meter branch.....	10 00	43 61	261 41	219 11		537 13
139	Rumabout, foreman Charlestown district.....	20 00		98 16	24 55		142 71
140	Rumabout, spare.....	20 00	35 74	35 00	375 23		465 97
141	Touring car.....	10 50	55 61	164 52	233 79		464 40
142	Rumabout, engineer meter branch.....	11 00		81 40	27 50		631 92
143	Rumabout, foreman, West Roxbury district.....	12 00	3 05	83 66	4 83		577 51
144	Rumabout, foreman, Brighton district.....	14 00		64 12	12 02		558 11
145	Rumabout, foreman, Dorchester district.....	14 00		53 91	1 90		542 81
146	Truck, shutoff gang.....	4 00		94 15	41 42		651 74
147	Touring car, supervisor of automobiles.....	10 00		34 85	50 25		95 10
148	Roadster, general foreman.....	12 00		46 25	23 55		488 80
149	Truck, Dorchester district.....	4 00		43 40	28 40		832 95
150	Truck, meter branch.....	4 00		40 10	44 24		815 49
	Pittomer Co.'s car used on waste survey.....		63 29	135 16	62 13		260 58
	Automobile repair shops.....				3,063 68	\$165 42	3,229 10
	Auto parts bought for repairs.....				1,651 05		1,651 05
	Garage, labor and supplies.....				3,212 97	1,118 26	4,331 23
	Totals.....	\$269 50	\$4,019 86	\$8,116 04	\$10,650 50	\$15,147 00	\$50,553 30

<sup>1</sup> \$120.00 allowed for this car on purchase price of auto No. 146.

<sup>2</sup> \$80.00 allowed for this car on purchase price of auto No. 149.

<sup>3</sup> \$165.00 allowed for this car on purchase price of auto No. 143.

<sup>4</sup> \$160.00 allowed for this car on purchase price of auto No. 138.

<sup>5</sup> \$120.00 allowed for this car on purchase price of auto No. 148.

<sup>6</sup> \$265.00 allowed for this car on purchase price of autos No. 134 and 135.

<sup>7</sup> \$130.00 allowed for this car on purchase price of auto No. 145.

<sup>8</sup> \$165.00 allowed for this car on purchase price of auto No. 144.

<sup>9</sup> \$160.00 allowed for this car on purchase price of auto No. 137.

<sup>10</sup> \$110.00 allowed for this car on purchase price of auto No. 150.

<sup>11</sup> \$175.00 allowed for this car on purchase price of auto No. 142.

<sup>12</sup> Sent to Franklin Union.

## INCOME BRANCH.

Assessments, Abatements and Collections, 1905, to  
January 31, 1921.

ACCOUNT OF YEAR.	Amount Assessed.	Amount Abated.	Amount Collected.	Balance.
1906.....	\$2,524,205 25	\$37,599 28	\$2,486,605 97	.....
1907.....	2,619,031 00	34,959 33	2,584,071 67	.....
1908.....	2,645,962 55	36,939 32	2,609,023 23	.....
1909.....	2,694,408 57	49,407 44	2,645,001 13	.....
1910.....	2,845,900 66	117,818 49	2,728,182 17	.....
1911.....	2,863,501 75	65,439 47	2,798,062 28	.....
1912.....	3,001,771 87	41,251 26	2,943,402 48	\$17,118 13
1913.....	3,004,331 52	37,213 39	2,954,183 62	12,934 51
1914.....	3,034,885 83	23,521 74	2,970,232 82	41,131 27
1915.....	2,960,797 45	15,084 24	2,902,946 96	42,766 25
1916.....	3,130,539 28	15,829 03	3,057,500 88	57,209 37
1917.....	3,120,801 86	18,728 42	3,034,236 75	67,836 69
1918.....	3,359,586 55	96,188 68	3,184,713 06	78,684 81
1919.....	3,209,945 71	24,042 97	3,080,396 98	105,505 76
1920.....	3,458,267 39	47,673 95	2,994,454 64	416,138 80
1921.....	404,741 61	751 15	72,340 70	331 649 76

## Elevator, Motor and Fire Service.

Elevator servies installed.....	2
Elevator services abandoned.....	1
Total number of elevator services January 31, 1921.....	514
Fire services installed.....	96
Total number of fire services January 31, 1921.....	1,728
Total number of motor services January.....	96
Number of motor services metered.....	20

## Water Turned Off and On.

For repairs.....	6,020
For vacancy.....	1,548
For waste.....	10
For non-payment of rates.....	1,777
Turned on for first time.....	359



## METER BRANCH.

Table No. 1.—Statement of Work During the Year.

MAKE.	New Sets.	Discontinued.	CHANGED.		Tested.	Repaired in Shop.	Resets.	Repaired in Service.
			In.	Out.				
Hersey Disc.....	1,155	35	2,870	4,205	312	3,841	406	311
Worthington disc.....	1,194	8	2,964	1,689	80	1,945	334	184
Crown.....	37	5	167	249	21	184	25	38
American.....	6	2	129	210	15	125	14	22
Hersey rotary.....	8	1	142	150	15	147	29	9
Nash.....	11	1	95	145	7	101	12	3
Lambert.....	17	1	79	100	12	97	9	8
Trident.....	6	.....	28	34	5	31	6	2
Keystone.....	1	.....	28	35	3	25	20	3
Empire.....	21	.....	16	17	2	13	4	.....
Worthington.....	.....	1	.....	12	2	9	.....	.....
Hersey detector.....	.....	.....	.....	.....	.....	.....	.....	23
King.....	846	3	773	447	22	369	137	55
Hersey compound.....	1	.....	2	.....	.....	.....	.....	.....
Totals.....	3,303	57	7,293	7,293	496	6,887	996	658

Table No. II.

*Meters in Stock, February 1, 1921.*

MAKE.	DIAMETER IN INCHES.								Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	
Hersey disc.....	326	24	6	6	1	2	2	.....	367
Worthington disc.....	100	2	.....	.....	1	.....	.....	.....	103
Crown.....	350	82	52	21	9	10	3	2	529
American.....	33	7	.....	.....	.....	.....	.....	.....	40
Hersey rotary.....	166	65	23	18	7	.....	.....	.....	279
Nash.....	48	4	6	1	.....	2	.....	.....	61
Lambert.....	39	2	.....	1	.....	.....	.....	.....	42
Trident.....	19	.....	1	.....	.....	.....	.....	.....	20
Keystone.....	46	2	1	.....	.....	.....	.....	.....	49
Empire.....	48	1	2	.....	.....	.....	.....	.....	51
King.....	318	49	56	11	2	.....	.....	.....	436
Gem.....	.....	.....	.....	.....	2	4	1	1	8
Totals.....	1 493	238	147	58	22	18	6	3	1,985

Table No. III.  
Meters in Service February 1, 1921.

MAKE.	DIAMETER IN INCHES.												Totals.
	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	3	4	6	8	10	12	
Hersey disc.....	43,028	2,870	1,456	1	700	259	109	38	1	...	...	...	48,462
Hersey rotary.....	242	298	224	...	168	158	63	13	14	...	...	...	1,180
Hersey detector.....	...	...	...	...	...	...	3	16	23	12	4	2	60
Crown.....	653	406	323	...	193	180	77	54	10	...	...	...	1,896
Nash.....	419	231	128	...	40	37	2	...	...	...	...	...	857
Lambert.....	304	108	72	...	13	19	...	4	...	...	...	...	520
Trident.....	171	4	3	...	4	5	10	...	1	...	...	...	198
Worthington.....	...	12	23	...	3	8	2	...	...	...	...	...	48
Worthington disc.....	9,168	41	24	...	12	47	9	...	...	...	...	...	9,301
Keystone.....	150	80	22	...	2	2	9	...	2	...	...	...	267
Metropolitan.....	...	13	1	...	...	...	...	...	...	...	...	...	14
American.....	220	483	...	...	...	...	...	...	...	...	...	...	703
Worthington turbine.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Empire.....	121	2	3	...	6	...	...	...	...	...	...	...	132
Gem.....	...	...	...	...	...	1	...	5	8	...	...	...	14
Standard.....	6	...	...	...	...	...	...	...	...	...	...	...	6
B. W. W.....	...	1	...	...	...	...	...	...	...	...	...	...	1
Thomson.....	6	2	...	...	...	...	...	...	...	...	...	...	8
Union.....	2	1	...	...	...	...	...	...	...	...	...	...	3
Gamon.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Hersey compound.....	...	...	...	...	...	...	...	...	4	...	...	...	4
King.....	3,340	67	205	...	37	40	...	...	...	...	...	...	3,689
Totals.....	57,831	4,619	2,484	1	1,178	756	284	131	63	12	4	2	67,365

Table No. IV.  
Meters Purchased.

MAKE.	DIAMETER IN INCHES.							Totals.
	$\frac{5}{8}$	1	1 $\frac{1}{2}$	2	3	4	6	
Hersey disc.....	...	...	...	...	...	3	...	3
Worthington disc.....	5,000	25	52	66	18	...	...	5,161
Hersey compound.....	...	...	...	...	...	...	1	1
King.....	500	...	...	...	...	...	...	500
Totals.....	5,500	25	52	66	18	3	1	5,665

Table No. V.  
Meters Condemned.

MAKE.	DIAMETER IN INCHES.						Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4
Nash.....				2	1		3
Lambert.....		1					1
Hersey rotary.....		1		1			2
Crown.....	2	8	2	1	1	1	1
Worthington.....			4	1	1	1	
Hersey disc.....				1	1	1	
Totals.....	2	10	6	6	4	3	3

Table No. VI.  
Meters Repaired in Service.

MAKE.	Defaced.	Clock Broken.	Spindle Leak.	Coupling Leak.	Relocated.	Miscellaneous.	Totals.
Hersey disc.....	2		117	188		4	311
Worthington disc.....	7	3	114	59	1		184
Crown.....	1		29	4	1	3	38
American.....	3		16	3			22
Hersey rotary.....	5			4			9
Nash.....	3						3
Lambert.....		2			1	5	8
Trident.....	1			1			2
Keystone.....	2			1			3
Hersey detector.....		19				4	23
King.....	3	4	15	30	1	2	55
Totals.....	27	28	291	290	4	18	658

Table No. VII.  
Meter Changes.

MAKE.	METERS IN.							METERS OUT.							
	DIAMETER IN INCHES.							DIAMETER IN INCHES.							
	1	1½	2	3	4	6	Totals.	1	1½	2	3	4	6	Totals.	
Hersey disc.....	2,358	309	116	36	23	22	2,870	3,631	315	151	47	26	29	6	4,205
Hersey rotary.....	27	54	22	18	16	2	142	42	41	38	11	16	1	1	150
Crown.....	33	44	29	18	25	10	167	71	54	47	34	31	10	7	249
Nash.....	44	31	17	1	1	1	95	76	36	25	4	4	.....	.....	145
Lambert.....	52	15	8	1	3	.....	79	61	23	11	1	4	.....	.....	100
Trident.....	24	2	.....	.....	1	1	28	30	2	.....	.....	1	1	.....	34
Worthington.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	3	3	.....	.....	12
Worthington disc.....	2,897	6	16	15	26	4	2,964	1,677	3	1	.....	7	1	.....	1,689
Keystone.....	16	10	2	.....	.....	.....	28	18	14	2	.....	1	.....	.....	35
American.....	54	75	.....	.....	.....	.....	129	138	72	.....	.....	.....	.....	.....	210
Empire.....	16	.....	.....	.....	.....	.....	16	16	.....	.....	1	.....	.....	.....	17
King.....	571	45	131	14	12	.....	773	352	14	61	8	12	.....	.....	447
Hersey compound.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	6,032	591	341	103	107	40	7,293	6,112	574	342	99	105	42	14	7,293

Table No. VIII.  
Causes for Meters Changed.

MAKE.	Test.	Not Registering.	No Force.	Stoppage.	Enlarged.	Spindle Leak.	Coupling Leak.	Frost.	Set Backwards.	Relocated.	Clock Broken or Defaced.	Totals.
Hersey Disc.....	312	3,152	88	21	31	214	184	176	27	.....	.....	4,203
Hersey rotary.....	15	30	6	16	2	.....	61	14	3	1	2	150
Crown.....	21	138	2	7	.....	33	19	16	5	.....	8	249
Nash.....	7	65	11	11	1	.....	39	.....	9	.....	2	145
Lambert.....	12	22	9	8	2	.....	42	.....	5	.....	.....	100
Trident.....	5	13	3	4	.....	.....	8	.....	.....	1	.....	34
Worthington.....	2	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
Worthington disc.....	80	791	94	141	6	297	230	17	21	.....	12	1,689
Keystone.....	3	9	1	.....	.....	.....	17	4	1	.....	.....	35
American.....	15	100	22	19	2	21	28	.....	3	.....	.....	210
Empire.....	2	8	3	.....	.....	.....	3	.....	.....	1	.....	17
King.....	22	238	77	14	3	11	3	.....	8	1	.....	447
Totals.....	496	4,576	316	241	47	646	634	227	82	4	24	7,293

Table No. IX.  
Meters Applied.

MAKE.	DIAMETER IN INCHES.							Totals.
	$\frac{5}{8}$	$\frac{1}{2}$	1	1½	2	3	4	
Hersey disc.....	1,085	28	26	9	6	1	.....	1,155
Worthington disc.....	1,175	.....	3	7	8	1	.....	1,194
King.....	828	5	6	4	3	.....	.....	846
American.....	6	.....	.....	.....	.....	.....	.....	6
Trident.....	6	.....	.....	.....	.....	.....	.....	6
Hersey rotary.....	2	5	.....	.....	1	.....	.....	8
Nash.....	6	3	.....	1	1	.....	.....	11
Keystone.....	1	.....	.....	.....	.....	.....	.....	.....
Lambert.....	12	3	1	.....	.....	.....	1	17
Crown.....	11	3	1	11	7	3	1	37
Hersey compound.....	.....	.....	.....	.....	.....	.....	1	1
Empire.....	21	.....	.....	.....	.....	.....	.....	21
Totals.....	3,153	47	37	32	26	5	3	3,303

## WASTE PREVENTION BRANCH.

The following tables give in detail the operations of this branch during the past year.

Table I.

*Waste Prevention.*

Premises examined.....	12,410
Special investigation.....	326
Waste reports.....	2,109
Re-examinations.....	1,710
Found repaired.....	1,400
Not repaired.....	310

Table II.

*Defective Fixtures and Waste.*

Tank fixture leaking.....	960
Faucets leaking.....	1,104
Pipes inside leaking.....	139
Pipes outside leaking.....	85
Metered premises leaking.....	524
Gates leaking.....	10
Hydrants leaking.....	15
Wilful waste.....	6
Fountains leaking.....	8

## DISTRIBUTION BRANCH.

Table No. 1.

Showing Length of Water Pipes and Connections Owned and Operated by the Public Works Department, Water Division (Water Service) and Number of Valves in Same January 31, 1921.

DIAMETER IN INCHES.																	
48	42	40	36	30	24	20	16	14	12	10	8	6	4	3	2	Totals.	
Length owned and operated January 31, 1920 (feet).....	10,607	15,683	16,081	37,132	93,218	79,147	87,126	266,900	5,041	1,456,595	100,974	831,017	1,212,781	102,925	7,022	5,791	4,628,073
Gate valves in same.....	9	4	8	18	59	67	75	597	19	3,613	1,344	2,785	3,822	603	15	12	13,050
Air valves in same.....	13	3	7	27	103	48	41	54	37	1	4	1	1	56	6	1	339
Blow-offs in same.....	1	4	3	8	35	21	46	61	152	41	107	118	118	56	6	1	663
Length laid and relaid during year 1920-21.....					1,080	12	127	3,554		14,916	12,149	6,698	1,573	75	193		40,377
Gate valves in same.....					4		2	15		66	35	42	7	3			171
Air valves in same.....					1		1	2									8
Blow-offs in same.....					2					1	3	2	1				9
Length abandoned during year 1920-21.....					1,075	69	787	500		1,931	203	2,719	18,610	2,895		193	29,012
Gate valves in same.....					1	1	4	2		3	1	9	56	9			86
Air valves in same.....					1		1										2
Blow-offs in same.....					2			1		1		2		1			8
Length owned and operated January 21, 1921 (feet).....	10,607	15,683	16,081	37,132	93,223	79,090	86,466	269,951	5,011	1,469,580	112,929	831,996	1,195,717	100,105	7,022	5,791	4,639,108
Gate valves in same.....	9	4	8	18	59	66	73	610	19	3,676	1,378	2,818	3,773	597	15	12	13,135
Air valves in same.....	13	3	8	27	106	48	41	56	56	37	1	4	1	55	6	1	345
Blow-offs in same.....	1	4	3	8	35	21	46	63	152	43	107	119	119	55	6	1	664

\* 878.67 miles in system.

Table No. II.  
*Statement of Hydrant Blow-Off and Reservoir Pipes.*

	DIAMETER IN INCHES.								
	16	12	10	9	8	6	4	3	
Total length connected with system January 31, 1920.....	27	5,566	188	1,922	5,886	63,350	6,002	68	83,609
Length laid and relaid during year.....					10	1,500	16		1,526
Length abandoned during year.....			2	32	116	421	24		595
Total length connected with system January 31, 1921.....	27	5,566	186	1,890	5,780	64,429	6,594	68	84,540



Table No. III.

*Total Number of Hydrants in System January 31, 1921.*

	Lowly.	Boston Lowly.	Boston Post.	Ordinary Post.	Backholder & Finneran Post.	Ludlow Post.	Chapman Post.	Coffin Post.	Matthews Post.	Boston.	Totals.
City Proper (public) . . . . .	500	42	619	272	25	...	...	...	...	67	1,525
" (private) . . . . .	4	...	9	6	...	...	...	...	...	39	58
Roxbury (public) . . . . .	379	63	556	456	3	...	...	...	...	16	1,473
" (private) . . . . .	2	1	3	2	...	...	...	...	...	10	18
West Roxbury (public) . . . . .	54	184	523	850	5	...	...	...	...	18	1,634
" (private) . . . . .	...	...	...	16	...	...	...	...	...	1	17
Brighton (public) . . . . .	41	62	298	477	...	...	...	...	...	14	892
" (private) . . . . .	...	...	...	8	...	...	...	...	...	2	10
Dorchester (public) . . . . .	228	169	720	1,142	6	...	...	...	...	22	2,287
" (private) . . . . .	...	1	8	1	...	...	...	...	...	4	14
South Boston (public) . . . . .	115	24	283	223	1	...	...	...	...	18	664
" (private) . . . . .	3	...	...	15	...	...	...	...	...	27	45
East Boston (public) . . . . .	38	17	242	205	...	...	...	...	...	6	508
" (private) . . . . .	8	1	...	9	...	...	...	...	...	25	43
Charlestown (public) . . . . .	98	41	163	47	...	...	...	...	...	2	351
" (private) . . . . .	13	1	...	37	...	...	...	...	...	5	56
Hyde Park (public) . . . . .	...	2	28	259	3	7	145	1	...	...	445
" (private) . . . . .	...	...	...	...	...	13	55	...	4	...	72
Deer Island (private) . . . . .	...	...	1	20	...	...	...	...	...	...	21
Long Island (private) . . . . .	...	...	...	6	...	...	...	...	...	...	6
Thompson's Island (private) . . . . .	...	...	...	2	...	...	...	...	...	...	2
Gallop's Island (private) . . . . .	...	...	...	3	...	...	...	...	...	1	4
Rainsford Island (private) . . . . .	...	...	...	3	...	...	...	...	...	1	4
Quincy . . . . .	...	...	...	9	...	...	...	...	...	...	9
Total number (public) . . . . .	1,453	604	3,432	3,931	43	7	145	1	...	163	9,779
Total number (private and suburban) . . . . .	30	4	21	137	...	13	55	...	4	115	379

Table No. IV.

*Total Number and Aggregate Length of Service Pipes of Various Sizes  
Connected with System, January 31, 1921.*

SIZE.	Total Number.	Aggregate Length in Linear Feet.
$\frac{1}{2}$ -inch.....	6,921	158,416
$\frac{3}{8}$ -inch.....	85,007	2,372,794
$\frac{1}{4}$ -inch.....	3,486	119,707
1-inch.....	5,446	195,952
1 $\frac{1}{4}$ -inch.....	515	15,682
1 $\frac{1}{2}$ -inch.....	1,567	47,984
2-inch.....	2,160	67,476
2 $\frac{1}{2}$ -inch.....	12	267
3-inch.....	944	27,420
4-inch.....	2,383	72,073
6-inch.....	187	22,980
8-inch.....	57	4,059
10-inch.....	11	1,648
12-inch.....	17	3,558
16-inch.....	5	448
Totals.....	108,718	3,110,410

Table No. V.  
Fountains in Service January 31, 1921.

	Style B.	Style D.	Style G.	Style H.	Style I.	Style J.	Style K.	Style L.	Style M.	Totals.
City proper .....				7	18	10	.....	6	12	53
Roxbury.....	2			4	1	4	3	1	2	17
West Roxbury.....		1		1	.....	3	2	2	1	10
Brighton .....				1	.....		2	3	.....	6
Dorchester.....	1	.....	1	1	.....	3	1	1	4	12
South Boston.....	1	.....		3	5	5	1	.....	2	17
East Boston.....	3	.....		5	.....	3	.....	1	.....	12
Charlestown .....					11	5	.....	3	2	21
Hyde Park .....	1	.....		1	.....	1	.....		2	5
Totals.....	8	1	1	23	35	34	9	17	25	153

## FOUNTAIN DESCRIPTION.

- B. Indicates fountain for beasts only. Continuous flow of water during year.  
D. Indicates fountain for man and beast. Automatic fixtures for both.  
G. Indicates fountain for man and beast. Hygienic bubble fixture for man. Continuous flow of water for man and beast all the year.  
H. Indicates fountain for man only. Water of ordinary temperature. Hygienic bubble fixtures controlled by self-closing cocks. In service during warm weather.  
I. Indicates taps on water posts, hydrants and fountains for watering horses.  
J. Indicates fountains for man only. Cold water. Hygienic bubble fixtures controlled by self-closing cocks. In service during warm weather.  
K. Indicates fountain for man and beast, fitted with automatic fixtures controlled by self-closing cocks. Bubble fixture for man in warm weather. Continuous flow for beasts all the year.  
L. Indicates fountain for man and beast, bubble fixtures for man and taps fitted for the purpose of filling pails to water horses. Continuous flow for beasts all the year.  
M. Indicates fountain for beasts only, fitted with taps for the purpose of filling pails to water horses. Continuous flow for beasts all the year.

**Table No. VI.**  
*Maintenance of Main Pipe.*

NATURE OF WORK.	Number. of Jobs.	Total Cost.
Box tops renewed.....	42	\$383 29
Cleaning main pipes (by contractors).....	32	1,007 48
Dead heads blown off.....	131	365 62
Gates leaking at packing.....	66	396 42
Gates inspected, located, oiled, salted, tested, etc.....	5,784	3,823 67
Gate locations marked.....	9,295	1,957 35
Gates repaired.....	53	1,851 51
Gate boxes cleaned out.....	491	166 03
Gate box covers (74) and frames (78) replaced.....	152	1,301 75
Gate boxes renewed.....	436	10,285 79
Gate boxes raised and lowered.....	683	6,683 25
Leaking joints repaired.....	124	3,532 51
Leaks due to settlements and other causes.....	27	2,896 61
Repairs on bridges (on pipes, boxes, etc.).....	29	2,179 06
Repaving (including contractor's miscellaneous jobs).....	207	2,470 88
Miscellaneous jobs.....	21	547 32
<b>Totals.....</b>	<b>17,655</b>	<b>\$39,848 54</b>

Table No. VII.  
*Hydrants Established and Abandoned.*

	ESTABLISHED.									ABANDONED.									
	Lowly.	Boston Lowly.	Boston Post.	Ordinary Post No. 1.	Ordinary Post No. 2.	Rachelder Post.	Rachelder and Fineman No. 1.	Rachelder and Fineman No. 2.	Total.	Lowly.	Boston Lowly.	Boston Post.	Ordinary Post No. 1.	Ordinary Post No. 2.	Rachelder Post.	Chapman Post.	Ludlow Post.	Boston.	Total.
City proper.....	4		1		15		15	8	43	16		3	3	2	16			3	43
Roxbury.....		1			11		1	1	14	3	1	3	4		3			1	15
West Roxbury.....		2		7	40		3	2	54	6	4	8	11	5	2				36
Brighton.....			1	5	12				18	6	1	2	6						15
Dorchester.....		1		3	32		2	3	41	14	3	1	11	5	1				35
South Boston.....					12				12			1	1						2
East Boston.....					9				9	2	1	2	3		2				10
“ “ (private).....		1							1										0
Charlestown.....					3	1			4	1			2	1	1				5
Hyde Park.....				6	1		1	2	10			1				3	2		6
Total, public...	4	4	2	21	135	1	22	16	205	48	10	20	42	13	25	3	2	4	167
Total, private...		1							1										

Table No. VIII.

*Hydrant Repairs.*

CAUSE OF TROUBLE.	Number of Jobs.	Net Cost.
Boxes raised, lowered, reset, repaired and renewed.....	688	\$8,442 02
Barrels changed, relocated, reset and repaired.....	2,258	4,058 56
Frost.....	457	497 39
Gates defective.....	3	49 69
Paint worn off.....	2,306	422 05
Contractors, corporations, other departments and divisions....	181	614 37
Street construction and repairs.....	114	2,648 50
Repaving on account of repairs.....	243	2,072 66
Traffic.....	140	1,195 61
Hydrants inspected, oiled, cleaned, pumped and wasted.....	79,156	19,375 04
Salt delivered to Fire Department, 3,092 sacks.....		4,341 20
	85,546	\$43,717 09



Table No. X.  
*Cost of New Service Pipes Laid.*

SIZE.	Number.	Length in Feet.	Material.	Labor, Teaming, etc.	Repaving.	Blasting.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
1-inch....	149	3,555	\$2,080 91	\$3,114 98	\$471 55	\$545 00	\$6,212 44	\$41 79	\$1 75
1-inch....	38	1,018	757 66	1,185 61	176 59	112 00	2,231 86	58 73	2 19
1-inch....	6	127	129 85	106 71	13 50	.....	250 06	41 68	1 97
1½-inch....	7	240	227 20	93 74	143 10	.....	464 04	69 15	1 92
1½-inch....	6	148	204 65	139 10	.....	.....	343 75	57 29	2 32
2-inch....	12	299	576 96	290 33	45 00	.....	912 29	76 02	3 05
3-inch....	3	64	219 89	191 08	.....	.....	410 97	116 99	6 42
4-inch....	90	1,337	7,574 69	4,638 87	1,536 21	.....	13,749 77	152 77	10 28
6-inch....	3	78	219 75	112 95	.....	.....	332 70	110 90	4 27
8-inch....	1	7	95 38	62 67	.....	.....	158 05	158 05	22 58
16-inch....	4	392	.....	.....	.....	.....	.....	.....	.....
Totals...	319	7,265	\$12,086 94	\$9,936 04	\$2,385 95	\$657 00	\$25,065 93		

Table No. XI.  
*Cost of Service Pipes Abandoned and Plugged.*

SIZE.	Number.	Length in Feet.	Material.	Labor, Teaming, etc.	Repaving.	Total Cost.	Credit (Stock Returned.)	Net Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
1-inch....	19	610	\$5 33	\$143 82	.....	\$149 15	\$41 06	\$108 09	\$5 69	\$0 18
1-inch....	141	3181	84 83	1,697 85	\$391 57	2,174 25	384 83	1,789 42	12 69	56
1-inch....	5	89	2 05	35 57	250 00	287 62	6 52	281 10	56 22	3 27
1-inch....	10	221	6 73	119 24	.....	125 97	63 77	62 20	6 22	29
1½-inch....	1	23	41	7 13	.....	7 54	6 09	1 45	1 45	07
1½-inch....	2	30	1 13	21 31	.....	22 44	13 37	9 07	4 53	30
2-inch....	3	82	3 08	57 42	45 04	105 54	58 93	46 61	15 54	57
4-inch....	2	39	7 51	22 78	11 17	41 46	11 36	30 10	15 05	77
Totals..	183	4,275	\$111 07	\$2,105 12	\$697 78	\$2,913 97	\$585 93	2,328 04		
3-inch....	1	19	5 25	14 26	.....	19 51	33 59	.....	.....	.....
12-inch....	1	69	7 10	38 69	.....	45 79	403 42	.....	.....	.....
16-inch....	1	39	4 06	22 11	.....	26 17	230 53	576 07	.....	.....
Totals..	186	4,402	\$127 48	\$2,180 18	\$697 78	\$3,005 44	\$1,253 47	\$1,751 97		

Table No. XII.

*Cost of Laying New Services, Excavating and Backfilling Done by Applicant.*

SIZE.	Number.	Length in Feet.	Material.	Labor.	Teaming.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
1-inch.....	14	198	\$130 37	\$44 65	\$27 74	\$202 76	\$14 48	\$1 02
1-inch.....	3	25	28 20	6 63	2 27	37 10	12 37	1 48
1-inch.....	2	41	29 04	6 40	4 96	40 40	20 20	99
2-inch.....	1	21	33 84	4 50	3 52	41 86	41 86	1 99
3-inch.....	4	68	326 54	87 63	19 70	433 87	108 47	6 38
4-inch.....	7	113	714 73	167 76	37 58	920 07	131 44	8 14
Totals.....	31	466	\$1,262 72	\$317 57	\$95 77	\$1,676 06		

Table No. XIII.

*Cost of Service Pipes, Replacing Others.*

SIZE.	LAID.		ABANDONED AND PLUGGED.		Material.	Labor, Teaming, etc.	Repaying.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
	Number.	Length in Feet.	Number.	Length in Feet.						
1-inch.....	11	286	67	1,996	\$132 83	\$237 18	\$34 88	\$404 89	\$36 78	\$1 42
1-inch.....	12	435	8	108	208 66	438 38	156 57	803 61	66 97	1 85
1-inch.....	21	558	19	403	395 59	649 92	185 22	1,230 73	58 61	2 21
1½-inch.....	6	130	1	3	101 71	200 17	71 13	309 01	51 50	2 30
1½-inch.....	16	356	4	93	399 87	728 57	25 00	1,153 44	72 09	3 24
2-inch.....	13	250	.....	.....	453 56	464 03	176 25	1,093 84	84 14	4 37
3-inch.....	4	68	.....	.....	304 57	213 74	.....	518 31	129 58	7 62
4-inch.....	2	19	1	.....	109 66	435 09	.....	544 75	272 38	28 67
6-inch.....	1	35	1	147	131 92	97 58	.....	229 50	229 50	6 56
Totals.....	86	2,137	101	2,750	\$2,238 37	\$3,464 66	\$585 05	\$6,288 08		



Table No. XIV.  
*Service Pipe Repairs.*

CAUSE OF TROUBLE.	Number of Jobs.	Net Cost.
Boxes established, repaired, regulated and renewed . . . . .	115	\$1,090 14
Cocks established, repaired and regulated . . . . .	124	1,893 48
Gates defective . . . . .	14	329 89
Electrolysis, ashes and rats . . . . .	14	451 03
Defective pipes and settlement . . . . .	1,167	23,443 67
Pipes regulated . . . . .	3	134 15
Repairs on account of contractors, corporations, other departments and divisions.	144	1,526 16
Frost . . . . .	91	1,039 38
Traffic . . . . .	16	126 64
Repaved on account of repairs . . . . .	742	10,004 14
Rust, dirt and fish . . . . .	1,157	5,159 37
Street repairs . . . . .	600	4,868 54
Uprights established, renewed, repaired, relocated and regulated	6,108	3,155 47
Off and on . . . . .	6,498	12,407 39
Investigations . . . . .	970	4,263 22
	17,763	\$69,892 67

Table No. XV.  
*Fountain Repairs.*

CAUSES.	Number of Jobs.	Cost.
Defective paving . . . . .	1	\$14 61
Boxes raised to grade . . . . .	4	104 86
Frozen . . . . .	1	3 21
Relocated . . . . .	4	803 22
General overhauling . . . . .	4	423 33
Hit by autos . . . . .	7	210 59
Hit by teams . . . . .	31	301 94
Defective cocks . . . . .	6	31 24
Defective drains . . . . .	26	134 55
Defective boxes . . . . .	16	685 81
Defective covers . . . . .	5	55 52
Faucets broken . . . . .	14	59 63
New top . . . . .	1	27 36
Hood loose . . . . .	1	2 76
Leaks . . . . .	68	425 24
Grating broken . . . . .	1	2 31
Cleaning cooler . . . . .	1	10 87
Totals . . . . .	191	\$3,297 05

Table No. XVI.  
*Fountains Established and Abandoned.*

STYLE.	Established.	STYLE.	Abandoned.
J.	South street, near Keyes street, West Roxbury.	J.	Dudley street, at Columbia road, Roxbury.
J.	Ramsey street, at Dudley street, Dorchester.		

Table No. XVII.

*New Fountains Established.*

	Cost of Material.	Cost of Labor and Teaming, etc.	Total Direct Cost.	Credit Stock Returned.	Net Direct Cost.
South street, near Keyes street, West Roxbury.....	\$39 54	\$130 11	\$169 65	.....	\$169 65
Ramsey street, at Dudley street, Dorchester.....	87 42	189 49	276 91	\$2 64	274 27
Cost of fountains established and abandoned.....	\$126 96	\$319 60	\$446 56	\$2 64	\$443 92

Table XVIII.

*Water Posts Established and Abandoned.*

ESTABLISHED.	ABANDONED.
Curve street, opposite Hudson street, city proper.....	Albany street, at Curve street, city proper.
Bowdoin avenue, near Bowdoin street, Dorchester.....	Jamaicaway, near Huntington avenue, Roxbury.
Centre street, 25 feet north of Central street, West Roxbury.	Riverway, between Longwood avenue and Bellevue street, Roxbury.
Winthrop street, near Hyde Park avenue, Hyde Park..	Fenway, at Westland avenue, Roxbury.
	1682 Centre street, West Roxbury.
	Walter street, at Arnold Arboretum, West Roxbury.
	Commonwealth avenue, at Chiswick road, Brighton.
	Commonwealth avenue, at Sutherland road, Brighton
	Commonwealth avenue, at Foster street, Brighton.
	Chestnut Hill Reservoir Park, Brighton.
	Commonwealth avenue, at Lake street, Brighton.
	Hyde Park avenue, near Everett street, Hyde Park.
	Washington street, at Gaylord street, Dorchester.

	Cost of Material.	Labor, Teaming, Paving, etc.	Total Direct Cost.	Credit Stock Returned.	Net Direct Cost.
Cost of established and abandoned water posts.....	\$135 21	\$334 68	\$469 89	\$317 38	\$152 51

Table No. XIX.

*Water Post Repairs.*

CAUSES.	Number of Jobs.	Cost.
Renewed decayed boxes.....	12	\$222 72
Boxes raised to grade.....	10	80 54
New brick chambers.....	1	61 13
Renewed defective frames and covers.....	2	21 96
Shut off and let on.....	84	137 29
Relocated.....	4	96 27
Defective paving.....	11	150 22
Leaks caused by defective cocks.....	39	548 01
Leaks caused by defective valves.....	2	5 75
Hit by teams.....	2	3 81
Posts broken.....	1	29 13
Renewed broken arms.....	7	84 96
Defective stand pipes.....	5	74 34
Frozen.....	1	2 25
Cleaned.....	2	13 14
Totals.....	183	\$1,531 52

Table No. XX.

*Meters Set for Meter Branch.*

NUMBER SET.		Size.	Cost of Material.	Cost of Labor, Teaming and Car Fare.	Total Cost.
Outside.	Inside.				
	3	$\frac{3}{4}$ -inch....	\$1 30	\$7 65	\$8 95
48.....		$\frac{3}{4}$ -inch....	423 37	515 69	939 06
8.....		$\frac{3}{4}$ -inch....	76 49	73 32	149 81
8.....		1-inch....	84 93	83 93	168 86
2.....		1 $\frac{1}{2}$ -inch....	20 94	22 62	43 56
7.....		2-inch....	88 66	74 15	162 81
	1	2-inch....	10 87	11 81	22 68
2.....		3-inch....	25 05	39 34	64 39
3.....		4-inch....	87 87	270 11	357 98
78.....	4		\$819 48	\$1,098 62	*\$1,918 10

\* Above is exclusive of cost of meters.

Table No. XXI.

*Meters Repaired for Meter Branch.*

CAUSES.	Jobs.	Cost.
Defective boxes . . . . .	183	\$2,864 43
Boxes raised to grade . . . . .	86	429 81
New brick chambers . . . . .	14	1,141 73
Defective frames and covers . . . . .	28	194 37
Meters leaking . . . . .	55	147 18
Meters frozen . . . . .	21	63 59
Meters relocated . . . . .	12	408 51
Meters reset . . . . .	242	418 61
Meters taken out . . . . .	35	74 91
Meters changed . . . . .	777	1,271 45
Meters tested . . . . .	15	18 33
Meters cleaned . . . . .	14	60 43
Defective paving . . . . .	120	774 20
Totals . . . . .	1,602	\$7,867 58

Table No. XXII.

## Machine Shop.

*Stock Manufactured from the Rough.*

KIND.	Number.	Labor.	40 Per Cent Added.	Stock.	Cost Each.	Total Cost.
Ordinary post, No. 2.....	46	\$14 46	\$20 24	\$40 14	\$60 38	\$2,777 48
Batchelder & Finneran No. 1.....	23	29 81	41 73	56 40	98 13	2,256 99
Batchelder & Finneran, No. 2.....	30	30 66	42 92	54 03	96 95	2,908 50
4-inch gates.....	48	7 71	10 79	11 70	22 49	1,079 52
6-inch gates.....	118	9 74	13 64	20 53	34 17	4,032 06
8-inch gates.....	23	10 59	14 83	31 79	46 62	1,072 26
10-inch gates.....	3	14 56	20 38	47 91	68 29	204 87
12-inch gates.....	10	16 62	23 27	61 41	84 68	846 80
16-inch gates.....	7	33 73	47 22	92 32	139 54	976 78
1-inch sidewalk cocks.....	354	79	1 11	1 14	2 25	796 50
1-inch sidewalk cocks.....	15	92	1 29	1 38	2 67	40 05
1-inch sidewalk cocks.....	27	1 10	1 54	1 62	3 16	85 32
1-inch corporation cocks.....	914	62	87	40	1 27	1,160 78
1-inch corporation cocks.....	87	92	1 29	63	1 92	167 04
1-inch corporation cocks.....	115	1 07	1 50	1 07	2 57	295 55
1½-inch corporation cocks.....	24	1 20	1 68	1 67	3 35	80 40
1½-inch corporation cocks.....	93	1 30	1 82	2 19	4 01	372 93
1-inch coupling nuts.....	1,344	06	08	06	14	188 16
1-inch coupling nuts.....	504	10	14	11	25	126 00
1-inch coupling nuts.....	229	13	18	17	35	80 15
1½-inch coupling nuts.....	27	15	21	36	57	15 39
2-inch coupling nuts.....	41	16	22	49	71	29 11
1-inch coupling tubes.....	2,927	06	08	04	12	351 24
1-inch coupling tubes.....	738	10	14	10	24	177 12
1-inch coupling tubes.....	261	12	17	14	31	80 91
1-inch male couplings.....	333	10	14	11	25	83 25
2-inch male couplings.....	52	25	35	69	1 04	54 08
1½-inch bent couplings.....	53	42	59	1 13	1 72	91 16
2-inch bent couplings.....	25	46	64	1 55	2 19	54 75
1½-inch combination couplings.....	50	40	56	90	1 46	73 00
2-inch combination couplings.....	17	44	62	1 27	1 89	32 13
1-inch meter nipples.....	80	08	11	19	30	24 00
2-inch meter nipples.....	180	28	39	55	94	169 20
1-inch solder nipples.....	200	12	17	11	28	56 00
1-inch iron plugs.....	22	22	31	06	37	8 14
Installing bushings in sidewalk uprights..	971	11	15	1 00	1 15	1,116 65
Hydrant wastes.....	472	32	45	36	81	382 32
Anti-freezing cocks.....	100	69	97	1 28	2 25	225 00
Totals.....						\$22,571 59

Table No. XXIII.

## Machine Shop.

*Stock Repaired and Miscellaneous Work.*

	Number.	Total Cost.
4-inch gates.....	3	\$5 87
6-inch gates.....	13	39 83
12-inch gates.....	2	9 46
16-inch gates.....	1	11 02
Lowry hydrants.....	27	178 62
Ordinary post hydrants.....	79	788 41
Made 100 $\frac{1}{8}$ -inch bonnet keys for high pressure hydrants.....	100	16 50
Stock consigned to junk (labor only).....		15 43
Accommodation work for other services.....		11 36
Made one new jack.....		6 30
Total.....		\$1,082 80

Table No. XXIV.

## Blacksmith Shop.

Sharpened 5,380 picks, 654 bars and 1,742 chisels . . . . .	\$1,359 90
Made 675 various kinds of tools . . . . .	555 02
Installed new power hammer in blacksmith shop, 710 Albany street . . . . .	546 66
Repaired 5 various kinds of tools . . . . .	30 88
Four wagons repaired . . . . .	24 79
Made gate extension for Southampton street . . . . .	8 79
Sharpened 25 drills for the Transit Commission . . . . .	4 30
Repairs in stable, 710 Albany street . . . . .	3 10
	<u>\$2,533 44</u>

Table No. XXV.

## Carpenter Shop.

## Stock Manufactured.

	Number.	Total Cost.
Boston Lowry hydrant boxes at \$11.82.....	42	\$495 60
Lowry hydrant boxes at \$9.03.....	37	334 11
Meter boxes at \$7.87.....	40	314 80
Small gate boxes at \$7.55.....	30	226 50
Post hydrant boxes at \$9.88.....	12	118 56
Large gate boxes at \$9.25.....	10	92 50
Deacon meter boxes at \$9.25.....	4	37 00
Boston hydrant boxes at \$8.37.....	6	50 28
Pieces for raising small gate boxes at \$0.16 per inch.....	2,734	437 44
Pieces for raising Lowry hydrant boxes at \$0.16 per inch.....	1,739	278 24
Pieces for raising meter boxes at \$0.16 per inch.....	1,457	233 12
Pieces for raising large gate boxes at \$0.16 per inch.....	176	28 05
Tops for small gate boxes at \$0.97.....	65	63 05
Tops for Lowry hydrant boxes at \$1.21.....	38	45 98
Tops for post hydrant boxes at \$1.21.....	22	26 62
Tops for large gate boxes at \$1.09.....	10	10 90
Tops for Boston hydrant boxes at \$1.09.....	3	3 27
Made wooden horses.....	29	28 35
Made shelves for Meter Department.....	3,832	262 69
Totals.....		\$3,087 07

Table No. XXVI.

## Carpenter Shop.

Alterations in Income Branch, City Hall Annex . . . . .	\$1,011 03
Repaired 479 tools . . . . .	445 80
General repairs in meter shop, 710 Albany street . . . . .	381 72
Various repairs around yard, 710 Albany street . . . . .	357 82
Repairs in machine shop, 710 Albany street . . . . .	323 81
Repairs in auto repair shop, 710 Albany street . . . . .	38 58
Repairs in auto annex, 710 Albany street . . . . .	322 46
Enlarging garage in Dorchester yard . . . . .	299 30
General repairs in Brighton yard . . . . .	198 03
Repairs on Orient Heights standpipe . . . . .	188 18
General repairs in stable, 710 Albany street . . . . .	171 27
Repairs on harbor service boat, Water Crest . . . . .	136 05
Boarded windows of Old West Roxbury pumping station opp. Metropolitan avenue . . . . .	114 58
Built staging for painter, Congress street bridge . . . . .	116 88
Repairs in garage, 710 Albany street . . . . .	98 76
General repairs in Dorchester yard . . . . .	87 91
Fitted up office, West Roxbury yard . . . . .	80 76
Made 65 tools . . . . .	72 40
General repairs in plumbing shop, 710 Albany street . . . . .	40 74
Twelve wagon repairs . . . . .	38 77
Repairs in office, 710 Albany street . . . . .	22 41
Repaired door for high pressure fire service . . . . .	19 77
Repairs in blue print room . . . . .	17 23
Made truck for building department, City Hall . . . . .	16 15
Repaired letter press for the Central Office . . . . .	9 73
Made filing box for Water Service office, City Hall Annex . . . . .	8 68
Boxed pattern for shipping to foundry (for Engineer Branch) . . . . .	14 30
Repaired wheel guard on Beacon street bridge . . . . .	2 53
Total . . . . .	\$4,708 55



Table No. XXVII.

## Plumbing Shop.

Installed hot water boiler in auto repair shop, 710 Albany street	\$415 19
New plumbing fixtures in West Roxbury yard	313 68
Repaired 174 tools	198 90
Accommodation work for other services	189 36
Installed hot water boiler in machine shop, 710 Albany street	133 79
Installed hot water boiler in meter room, 710 Albany street	119 09
Repairs on Orient Heights standpipe	108 87
Repaired 31 pumps	79 43
Repairs in machine shop, 710 Albany street	65 67
Connected hot water tank in plumbing shop, 710 Albany street	51 83
Relined sink in Blue Print room, City Hall	50 96
Various repairs around yard, 710 Albany street	40 86
Made 3 new tools	27 70
Repairs in stable, 710 Albany street	14 47
Repairs in office, 710 Albany street	6 27
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	\$1,815 98

Table No. XVIII.

## Miscellaneous.

Waste survey by the Pitometer Company in the Charlestown district	\$4,957 13
Waste survey by the Pitometer Company in the South Boston district	3,766 97
Waste survey by the Pitometer Company in part of the South End district	3,125 72
Waste survey by the Pitometer Company in the Brighton district	3,125 72
Forty-one hundred and twenty-four inspections of patch paving,	2,586 32
Accommodation work for private persons and corporations	1,003 48
Completed thawing outfit	794 02
Accommodation work for other services and departments	875 87
Installed heating apparatus in building, 710 Albany street	535 08
Fifteen Deacon meter boxes renewed at various locations	402 21
General repairs and work done in auto repair shop, 710 Albany street	149 79
Repairs in meter department, 710 Albany street	128 92
Finished wiring building, 710 Albany street	106 49
Repairs on Orient Heights Standpipe	80 53
Repairs in machine shop, 710 Albany street	96 07
Repairs on tools	211 72
Concealing telephone wires in Income Branch, City Hall Annex	80 50
Repairs in blacksmith shop, 710 Albany street	74 27
Repairs in engine room, 710 Albany street	89 69
Delivering water to contractors, corporations and other services,	64 01
Froze post hydrant for experimental purposes	51 98
Miscellaneous work	55 71
Repairs in stable, 710 Albany street	52 46
General repairs and work done in garage, 710 Albany street	48 99
Repairs in carpenter shop, 710 Albany street	43 52
Melted lead pipe pieces into pig lead	40 20
Wiring Dorchester garage	34 30
Filling up chambers at abandoned East Boston reservoir	33 87
Installed hot water jacket in Brighton yard	24 25
Various repairs around yard, 710 Albany street	65 26
Repairs in office, 710 Albany street	14 45
Installed telephone in emergency room, 710 Albany street	14 59
Repaired lights in Charlestown yard	5 44
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	\$19,613 81

## Cost of Extension of Main Pipe.

Street.	Location.	District.	( $\frac{1}{2}$ in.) dia.	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
Mckenna terrace.....	At Centre street.....	West Roxbury.	4	26	\$73 90	\$52 50	\$1 28	\$127 68	Public, under construction.
Bird place.....	From Centre street.....	West Roxbury.	4	36	71 59	63 00	2 56	137 15	Public, under construction.
	Totals.....			62	\$145 49	\$115 50	\$3 84	\$264 83	
Melvin side terrace.....	From Deer street.....	Dorchester.	6	26	\$34 14	\$29 00	.....	\$63 14	Public, macadam.
Thorndike street.....	From Commonwealth avenue.....	Brighton.	6	128	255 13	168 75	8 94	432 82	Public, dirt.
	Totals.....			154	\$289 27	\$197 75	\$8 94	\$495 96	
Bunker Hill street.....	Jackson and Ferrin streets.....	Charlestown.	8	382	\$1,078 17	\$731 42	\$51 10	\$1,860 69	Public, granite block, gravel base.
Currier street.....	Alabama and Kennebec streets.....	Dorchester.	8	61	108 69	240 83	20 44	369 96	Private, dirt.
Arbutus street.....	Lucerne and Ashton streets.....	Dorchester.	8	304	719 29	502 41	24 27	1,245 97	Public, dirt.
Hastings street.....	Centre and Corey streets.....	West Roxbury.	8	185	633 60	345 50	12 78	991 88	Public, under construction.
Angustus avenue.....	Metropolitan avenue and Whitford street.....	West Roxbury.	8	76	205 65	227 25	.....	432 90	Private, dirt. Connection between 8 and 12.
New Belgrade avenue.....	At Beech street.....	West Roxbury.	8	7	46 21	110 19	5 11	161 51	Public, macadam.
Wachusett street.....	Elbridge and North streets.....	West Roxbury.	8	216	544 19	256 33	12 78	813 30	Public, dirt.
Willow street.....	Weld and Dunbar streets.....	West Roxbury.	8	100	197 25	257 03	12 78	467 06	Public, dirt.
Braden street.....	From Washington street.....	West Roxbury.	8	58	280 70	245 03	8 94	534 67	Private, dirt.
Wright road.....	From North avenue.....	West Roxbury.	8	85	161 59	120 50	5 11	287 20	Private, dirt.
Mendelssohn street.....	From Nikisch avenue.....	West Roxbury.	8	50	262 70	94 88	.....	357 58	Private, dirt.

Granfield avenue.....	West Roxbury.	8	108	275 84	258 97	6 39	541 20	Private, dirt.
Oriole street.....	Bellevue avenue and Emmons road,	8	455	1,212 00	647 50	66 43	1,925 93	Private, dirt.
Cushman road.....	Murlock and Dustin streets.....	8	267	693 80	462 51	28 11	1,184 42	Public, dirt.
Falkland terrace.....	Hobart and Brookdale streets.....	8	292	798 85	552 02	40 88	1,391 75	Public, under construction.
Foster street.....	From Water street.....	8	461	1,131 81	534 15	30 66	1,696 62	Public, macadam.
	Totals.....		3,107	\$8,350 34	\$5,586 52	\$325 78	\$14,262 64	
Kennebec street.....	From Currier street.....	10	156	\$577 31	\$609 19	\$51 10	\$1,237 60	Private, dirt.
West Roxbury Parkway.....	From Felton street.....	10	185	537 46	395 22	30 66	963 34	Public, grass area. State Road.
Hinsdale road.....	From Washington street.....	10	220	641 30	954 51	25 55	1,621 36	Private, dirt.
Stellman road.....	From Washington street.....	10	115	424 62	297 93	8 31	730 86	Private, dirt.
Ferndale road.....	From Washington street.....	10	48	227 53	205 30	8 31	441 14	Private, dirt.
Landseer street.....	Centre and Lagrange streets.....	10	734	5,274 19	1,653 70	90 70	7,018 56	Private, dirt, rock.
Aslford street.....	From Babcock street.....	10	23	206 08	57 25	.....	263 33	Public, macadam.
Colonial road.....	Monastery and Easton roads.....	10	102	425 28	277 26	10 22	712 76	Private, earth excavation.
Nottingham road.....	South of No. 59.....	10	603	1,814 52	1,782 66	158 41	3,755 59	Public, dirt.
	Totals.....		2,186	\$10,128 29	\$6,233 02	\$383 26	\$16,744 57	
North street.....	At Richmond street.....	12	40	\$306 16	\$102 00	\$5 11	\$413 27	Public, granite block, concrete base.
Blackstone street.....	Between Hanover and North streets.	12	437	1,747 43	1,308 60	45 99	3,102 02	Public, granite block, concrete base.
East street.....	South street and Atlantic avenue.....	12	207	826 38	525 68	25 55	1,377 61	Public, granite block, concrete base.
Richmond street.....	North and Fulton streets.....	12	331	1,251 14	813 67	40 88	2,135 69	Public, granite block, concrete base.
Eliot street.....	Tremont and Carver streets.....	12	273	887 96	596 84	40 88	1,525 68	Public, granite block, gravel base.
Washington street.....	Union Park and Groton streets.....	12	1,084	5,076 23	1,697 44	88 79	6,862 46	Public, granite block, gravel base.

## Cost of Extension of Main Pipe.—Concluded.

Street.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
Kneeland street.....	South and Albany streets.....	City Proper.	12	338	\$1,370 71	\$660 86	\$21 00	\$2,054 57	Public granite block, gravel base.
Clafin street.....	C and D streets.....	South Boston.	12	552	2,284 92	1,163 20	33 22	3,481 34	Private, dirt.
D street.....	Danby and Fargo streets.....	South Boston.	12	654	2,647 84	1,337 65	63 88	4,069 37	Private, dirt.
Bulloch street.....	Clafin and Fargo streets.....	South Boston.	12	635	2,712 62	1,979 93	51 10	4,743 65	Private, under construction.
Bulloch street.....	Clafin and Fargo streets and C and D streets.	South Boston.	12	326	1,385 15	651 77	22 36	2,059 28	Private, under construction.
Alger street.....	From Dorchester avenue.....	South Boston.	12	402	1,830 14	589 12	17 89	2,437 15	Public, dirt.
Summer street.....	D and C streets.....	South Boston.	12	490	2,162 59	982 70	36 41	3,181 70	Public, granite block, gravel base.
Wood avenue.....	Oakland and Seminole streets.....	Dorchester.	12	259	985 66	711 60	45 99	1,716 25	Public, macadam.
Pelton street.....	At West Roxbury Parkway.....	West Roxbury.	12	20	348 20	26 00	3 20	377 40	Public, State Road, tar macadam.
Centre street.....	Merlin and Weld streets.....	West Roxbury.	12	756	3,412 45	674 81	132 86	3,920 12	Public, macadam.
Tyler street.....	Loring and Washington streets.....	Hythe Park.	12	433	1,550 34	720 28	29 44	2,291 06	Public, macadam.
	Totals.....			7,297	\$30,485 92	\$14,595 15	\$697 55	\$45,778 62	
Berkeley street.....	Stuart and Boylston streets.....	City Proper.	16	668	\$3,410 11	\$2,440 93	.....	\$5,851 04	Public, granite block, gravel base.
Lake street.....	At Commonwealth avenue.....	Brighton.	16	50	263 22	152 00	.....	415 22	Public, macadam.
	Totals.....			718	\$3,673 33	\$2,592 93	.....	\$6,266 26	
Clafin street.....	D and C streets.....	South Boston.	30	532	\$4,732 87	\$2,504 09	\$81 12	\$7,318 08	Private, dirt.
C street.....	Danby and Clafin streets.....	South Boston.	30	349	3,779 37	2,483 20	42 16	6,304 73	Public, granite block, gravel base
	Totals.....			881	\$8,512 24	\$4,987 29	\$123 28	\$13,622 81	

## Cost of Replacement of Main Pipe.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspe- ction.	Total Cost.	Original Size (Inch.)	Remarks.
Kennard avenue.....	Poplar and Allen streets.....	City Proper.	6	222	\$484 21	\$337 62	\$10 22	\$832 05	4	Public, asphalt.
Easton avenue.....	From Dana avenue.....	Hyde Park.	6	610	909 93	787 30	20 41	1,717 67	4	Private, macadam.
Hilton street.....	West and Arlington streets.....	Hyde Park.	6	550	613 15	663 69	39 66	1,367 50	4	Public, macadam.
	Totals.....			1,382	\$2,007 29	\$1,788 61	\$61 32	\$3,857 22		
Acton street.....	Washington and Bradford streets,	City Proper.	8	258	\$1,042 67	\$286 93	\$21 08	\$1,350 68	6	Public, asphalt.
Laconia street.....	Washington street and Harrison avenue.	City Proper.	8	336	1,158 20	420 76	53 66	1,632 62	6	Public, asphalt.
Groton street.....	Washington street and Shawmut avenue.	City Proper.	8	324	1,230 37	344 34	10 22	1,584 93	6	Public, asphalt.
Chambers street.....	Cambridge and Green streets.....	City Proper.	8	533	1,293 13	981 85	56 21	2,331 19	6	Public, granite block, gravel base.
Bachelder street.....	At Marshfield street.....	Roxbury.	8	38	138 75	59 20	1 28	199 23	6	Public, macadam.
Dilworth street.....	Northampton and Camden streets,	Roxbury.	8	339	933 92	974 01	23 00	1,930 96	6	Public, macadam.
Opposite 15 Boylston street.	.....	West Roxbury.	8	4	7 63	5 40	5 11	18 14	S&1	Public, macadam.
Burr street.....	From Boylston street.....	West Roxbury.	8	24	82 90	32 40	2 56	117 86	6	Public, macadam.
Clive street.....	From Boylston street.....	West Roxbury.	8	29	124 71	43 53	2 56	170 80	6	Public, macadam.
Dresden street.....	From Boylston street.....	West Roxbury.	8	24	87 07	36 78	2 56	126 41	6	Public, macadam.
Danforth street.....	At Boylston street.....	West Roxbury.	8	13	123 09	17 55	64	141 28	6	Public, macadam.
Sycamore street.....	At Ashland street.....	West Roxbury.	8	36	204 27	81 00	1 92	377 19	6	Public, macadam.
Sheldon street.....	At Ashland street.....	West Roxbury.	8	36	281 40	79 97	3 20	364 57	6	Public, macadam.
Walter street.....	Centre and Bussey streets.....	West Roxbury.	8	560	1,180 15	978 13	37 05	2,195 33	6	Public, macadam rock.

## Cost of Replacement of Main Pipe—Concluded.

STREET.	Location.	District.	Size (Inch.)	Feet.	Cost of Department. Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size (Inch.)	Remarks.
Bellmore terrace.....	At Boylston street.....	West Roxbury.	8	16	\$115 01	\$21 60	\$3 83	\$140 44	6	Public, macadam.
Westford street.....	At Raymond street.....	Brighton.	8	21	130 50	33 00	1 28	164 78	6	Public, macadam.
Brentwood street.....	Across Athol street.....	Brighton.	8	43	113 88	62 88	2 56	179 32	6	Public, macadam.
Oak street.....	Maple street.....	Hyde Park.	8	918	1,966 86	1,131 16	66 43	3,167 45	4	Public, macadam.
	Totals.....			3,552	\$10,301 51	\$5,563 52	\$265 15	\$16,193 18		
Auburn street.....	At Poplar street.....	City Proper.	10	20	\$85 84	\$33 60	\$5 11	\$124 55	6	Public, asphalt.
Public Alley No. 44.....	From Hereford street.....	City Proper.	10	301	885 66	629 47	15 33	1,530 46	4	Public, granite block, gravel base.
St. Germain street.....	Across Massachusetts avenue.....	Roxbury.	10	73	212 89	107 82	25 55	346 26	8	Public, macadam.
Kilmarnock street.....	Across Peterborough street.....	Roxbury.	10	85	413 45	113 13	10 22	536 80	8	Public, macadam.
Burt street.....	Washington and Ashmont streets.	Dorchester.	10	1,472	4,073 83	2,441 45	102 20	6,617 48	6	Public, macadam.
Fuller street.....	Dorchester avenue and Washington streets.	Dorchester.	10	1,894	5,434 20	2,227 91	97 09	7,759 20	6	Public, tar, macadam.
Thetford avenue.....	Evans and Norfolk streets.....	Dorchester.	10	1,373	5,390 06	2,049 01	86 87	7,525 94	6	Public, tar, macadam.
Burnett street.....	From Washington street.....	West Roxbury.	10	846	2,390 19	1,497 52	33 86	3,921 57	6	Public, macadam, under construction.
Centre street.....	Bellevue and Mt. Vernon streets.....	West Roxbury.	10	204	792 95	655 46	31 30	1,479 71	8	Public, under construction.
Maple street.....	Across Centre street.....	West Roxbury.	10	67	341 11	124 25	10 22	475 58	6	Public, macadam.
Adelaide street.....	From Boylston street.....	West Roxbury.	10	23	149 39	33 18	2 56	185 13	6	Public, macadam.
Sherwood street.....	At Ashland street.....	West Roxbury.	10	33	174 52	49 50	5 11	229 13	6	Public, macadam.
Athol street.....	Raymond and Holton streets.....	Brighton.	10	709	2,073 71	877 93	31 94	2,983 58	6	Public, macadam.
Waverley street.....	South Waverley and Market streets.	Brighton.	10	1,280	3,673 74	1,987 41	58 13	5,719 28	6	Public, macadam.

Riverdale street.....	Western avenue and Raymond street.	Brighton.	10	698	3,194 70	885 39	43 44	4,123 53	6	Public, macadam.
Raymond street.....	Riverdale and Athol streets.....	Brighton.	10	340	925 04	452 66	19 16	1,396 86	6	Public, macadam.
Englewood avenue.....	At Chestnut Hill avenue.....	Brighton.	10	19	75 75	90 50	.....	166 25	6	Public, macadam.
Vineland street.....	At Market street.....	Brighton.	10	48	236 53	97 75	.....	334 28	6	Public, macadam.
Washington street.....	Tyler street and Glenwood place.....	Hyde Park.	10	168	443 92	320 10	10 22	774 24	6	Public, macadam.
	Totals.....		.....	9,654	\$30,967 48	\$14,674 04	\$588 31	\$46,229 83		
Friend street.....	Merrimac and Washington streets,	City Proper.	12	423	\$1,601 76	\$1,077 69	\$66 43	\$2,745 88	6	Public, granite block, gravel base.
Washington street.....	At Groton street.....	City Proper.	12	37	339 73	44 61	5 11	389 45	6	Public, granite block, gravel base.
Poplar street.....	Charles and Chambers streets.....	City Proper.	12	1,206	6,078 34	2,339 64	93 90	8,511 88	6	Public, cobble-stone top on asphalt.
Peterborough street.....	Audubon road and Audubon road,	Roxbury.	12	1,890	7,098 38	2,421 37	245 28	9,765 03	6	Public, macadam.
Jersey street.....	North and south side of Peterborough street.	Roxbury.	12	15	262 57	14 18	5 11	282 16	12	Public, macadam.
Marshfield street.....	Norfolk avenue and Clifton street,	Roxbury.	12	1,042	3,722 84	1,805 56	45 35	5,573 75	6	Public, macadam.
Audubon road.....	At Brookline avenue.....	Roxbury.	12	20	65 70	182 79	.....	248 49	12	Public, macadam.
Boylston street.....	Lamarine street and Chestnut avenue.	West Roxbury.	12	417	1,822 48	1,230 63	39 60	3,092 71	6	Public, macadam, rock.
Tileston street.....	From River street.....	Hyde Park.	12	415	1,648 72	705 06	40 88	2,394 66	4	Public, macadam.
West street.....	Hyde Park avenue and Hilton street.	Hyde Park.	12	420	1,307 09	716 65	35 77	2,058 91	6	Public, macadam.
	Totals.....		.....	5,885	\$23,947 91	\$10,537 38	\$577 43	\$35,062 92		
Poplar street.....	Washington and Florence streets,	West Roxbury.	16	262	\$1,842 02	\$1,327 81	\$57 49	\$3,227 32	8	Public, rock, macadam.
Florence street.....	Poplar and Ashland streets.....	West Roxbury.	16	740	2,839 40	1,851 53	47 27	4,738 20	6	Public, rock, macadam.
Ashland street.....	Florence street and 100 feet east of Brown avenue.	West Roxbury.	16	1,708	7,421 67	4,277 43	177 57	11,876 67	8	Public, macadam.
	Totals.....		.....	2,710	\$12,103 09	\$7,456 77	\$282 33	\$19,842 19		
Private land.....	From Condor and Brooks streets,	East Boston.	20	83	\$406 14	\$434 75	\$13 42	\$854 31	20	Private land.

## Cost of Relocation of Main Pipe.

STREET.	Location.	District.	Size (Inches).	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size (Inches).	Remarks.
Creek square.....	From Blackstone street.....	City Proper.	6	22	\$61 03	\$73 65	.....	\$134 68	6	Public, granite block.
North Anderson street,	At Bridge court.....	City Proper.	6	11	42 76	20 05	.....	62 81	6	Public, macadam.
	Totals.....			33	\$103 79	\$93 70	.....	\$197 49		
Mt. Vernon street.....	Centre street and Chapin avenue,	West Roxbury.	10	218	\$623 47	\$801 52	\$17 89	\$1,445 88	8	Public, macadam.
St. James avenue.....	Berkeley and Clarendon streets....	City Proper.	2	193	84 64	56 61	.....	141 25	12	Public, macadam.
Centre street.....	Willow and Maple streets.....	West Roxbury.	12	440	1,479 49	1,322 82	58 77	2,801 08	12	Public, under construction.
Centre street.....	Mt Vernon and La Grange streets,	West Roxbury.	12	787	2,680 46	1,178 65	20 10	3,879 21	12	Public, rock, under construction.
Cambridge street.....	Linden and Lincoln streets, over railroad bridge.	Brighton.	12	159	178 95	237 38	.....	416 33	12	Public, over Boston & Albany Railroad bridge.
	Totals.....			1,759	\$1,423 54	\$2,795 46	\$78 87	\$7,297 87		
Broadway.....	At Washington street.....	City Proper.	16	15	\$107 64	\$111 75	.....	\$219 39	16	Public, granite block, gravel base.
Centre street.....	La Grange and Mt. Vernon streets,	West Roxbury.	20	440	316 15	1,065 97	\$50 46	2,032 58	20	Public, under construction.



Average Monthly Heights, in Feet, Above Boston City Base to Which Water Rose at Different Stations.

1920.	SOUTHERN HIGH SERVICE.																		NORTHERN HIGH SERVICE.			
	City Hall.		Engine House No. 24, Quincy and Warren Streets, Roxbury.		Engine House No. 20, Walnut Street, Neponset.		Engine House No. 19, Norfolk Street, Mattapan.		Engine House No. 28, Centre, near Green Street, Jamaica Plain.		Engine House No. 30, Centre, near Bellevue Street, West Roxbury.		Engine House No. 15, Washington and Poplar Streets, Roslindale.		Engine House No. 29, Chestnut Hill Avenue, Brighton.		Engine House No. 48, Winthrop Street and Harvard Avenue, Hyde Park.		Water Service Yard, Eagle Street, East Boston.		Engine House No. 32, Bunker Hill Street, Charlestown.	
	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.
January.	245	231	238	225	235	220	228	219	237	227	249	238	242	235	253	246	247	233	.....	.....	161	155
February.	245	233	239	226	236	225	230	221	235	228	250	239	243	236	253	247	247	237	.....	.....	161	156
March.	247	232	240	226	240	224	231	219	238	229	250	239	245	237	247	244	248	235	.....	.....	163	157
April.	248	233	242	228	243	227	234	221	237	228	251	239	246	237	255	246	249	237	154	149	162	156
May.	249	232	244	228	243	225	233	221	238	229	250	239	245	237	250	243	246	238	154	148	163	155
June.	248	233	242	226	240	225	235	219	236	228	249	238	245	236	250	243	246	238	155	149	164	157
July.	247	231	242	228	239	224	232	219	238	228	250	238	245	236	254	244	247	237	156	149	164	158
August.	247	232	242	229	239	226	233	218	239	233	248	238	244	237	251	246	248	237	156	150	166	159
September.	247	230	242	227	241	226	236	225	233	226	248	237	244	236	254	245	248	236	156	150	166	159
October.	247	230	241	228	239	224	229	225	234	227	246	237	245	235	246	245	249	236	156	150	166	159
November.	247	232	242	227	240	226	227	225	234	231	251	231	246	238	251	246	249	236	155	149	165	159
December.	247	232	243	229	240	225	235	226	235	227	250	239	245	238	251	249	248	237	154	148	165	159

Average Monthly Heights, in Feet, Above Boston City Base in Which Water Rose at Different Stations.

1920.	LOW SERVICE.																	
	Chestnut Hill Pumping Station, Brighton.		Engine House No. 34, Western Avenue, Brighton.		Boston Common.		Engine House No. 8, Salem Street, City Proper.		Engine House No. 7, East Street, City Proper.		Engine House No. 38, Congress and Farnsworth Streets, South Boston.		Engine House No. 2, Fourth and O Streets, South Boston.		Water Service Yard, 710 Albany Street, South End.		Water Service Yard, Gibson Street, Dorchester.	
	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.
January.	152	166	144	144	144	142	.....	.....	144	139	144	136	138	130	146	146	147	134
February.	153	166	143	142	141	137	155	150	143	139	143	139	140	135	146	144	145	138
March.	153	166	146	145	143	139	157	153	148	140	147	142	148	139	149	146	149	140
April.	152	167	150	150	146	142	160	154	144	146	151	146	151	143	153	149	151	143
May.	153	166	150	152	148	140	161	153	142	143	151	143	152	141	152	144	152	140
June.	153	167	150	150	147	142	161	154	140	145	150	145	150	143	152	147	148	138
July.	153	167	149	147	147	140	160	151	140	141	151	142	150	141	151	146	149	142
August.	153	166	149	147	147	141	.....	.....	140	142	151	143	150	142	152	147	150	141
September.	153	167	151	149	149	144	.....	.....	140	143	150	142	150	141	151	147	150	141
October.	153	167	148	145	149	143	.....	.....	140	145	152	143	148	135	152	148	149	141
November.	152	167	150	147	150	145	.....	.....	151	145	151	146	151	142	152	149	149	142
December.	153	167	150	149	149	146	.....	.....	151	146	150	146	150	144	150	148	149	140



## WATERWORKS STATISTICS — CITY OF BOSTON.

FOR THE FISCAL YEAR ENDING JANUARY 31, 1921.

## CONSUMPTION.

Estimated population supplied . . . . .	751,810
Total consumption for the year 1920 . . . . .	34,418,551,000 gallons.
Passed through meters for the year 1920 . . . . .	17,456,285,250 gallons.
Percentage of consumption metered . . . . .	50.7
Daily average consumption for the year 1920 . . . . .	94,297,100 gallons.
Gallons per day to each consumer . . . . .	125 gallons.

## DISTRIBUTION.

*Mains.*

Kind of pipe. Cast iron.  
 Sizes: 4-inch to 48-inch.  
 Extended miles: 2.73.  
 Sizes, enlarged miles: 4.42.  
 Total miles now in use: 878.67.  
 Public hydrants added: 38.  
 Public hydrants now in use: 9,779.  
 Stop gates added: 85.  
 Stop gates now in use: 13,135.  
 Number of blow-offs: 664.  
 Range of pressure in main: 30 to 90 pounds.

*Table Showing Daily Consumption of Water in the City of Boston, Number of Services, Percentage of Services Metered, and Decrease in Daily Per Capita Consumption Since the Meter Law of 1907 Became Effective.*

YEAR.	Number of Services in Boston.	Number of Meters in Boston.	Percentage of Services Metered.	Estimated Population of Boston.	Daily Consumption in Boston. (Gallons).	Daily per Capita for Boston. (Gallons).	Population of Metropolitan District.	Daily Consumption in Metropolitan District. (Gallons).	Metropolitan Daily per Capita.
1908. ....	94,960	5,380	5.7	643,810	98,379,300	153	973,320	125,441,000	129
1909. ....	96,132	12,048	12.5	659,110	91,029,900	143	997,760	119,119,100	119
1910. ....	93,780	18,467	19.7	674,400	87,346,700	130	1,022,230	112,092,100	110
1911. ....	95,037	25,206	26.5	688,520	85,571,500	124	1,046,630	109,994,800	105
1912. ....	99,700	*34,565	34.8	718,900	90,037,500	125	1,086,690	116,230,700	107
1913. ....	101,100	41,168	40.7	735,098	79,390,600	108	1,104,263	103,847,700	94
1914. ....	102,449	48,091	46.9	747,830	81,877,800	109	1,134,180	107,036,100	94
1915. ....	103,980	54,458	52.3	† 745,580	77,651,800	114	1,160,750	101,911,500	88
1916. ....	105,386	60,129	57.5	746,130	80,358,800	108	1,171,000	106,337,800	90
1917. ....	105,352	63,071	59.9	746,680	82,073,200	110	1,181,240	110,032,300	93
1918. ....	105,158	63,187	59.9	747,830	94,634,000	127	1,191,480	129,764,000	109
1919. ....	108,568	61,078	59.0	747,780	89,652,400	120	1,201,730	120,593,500	100
1920. ....	108,718	67,392	62.0	† 751,810	94,297,400	125	1,213,430	127,265,500	105

\* 2,562 services and 1,510 meters acquired by annexation of Hyde Park.

† Actual Census.

## HIGH PRESSURE FIRE SERVICE.

Five thousand nine hundred linear feet of 12-inch, 16-inch and 20-inch mains were laid during the year in extension of the existing system.

The necessary leases for space and agreements for power have been entered into with the Boston Elevated Railway Company and the Edison Electric Illuminating Company for the establishment of two pumping stations, one at Lincoln Power Station of the Boston Elevated Railway Company, corner Battery and Commercial streets and one at the Third Station Property of the Edison Electric Illuminating Company on Atlantic avenue opposite Pearl street.

A contract has been made with the Westinghouse Electric and Manufacturing Company for furnishing and installing the following equipment:

*At Lincoln Power Station.*—Two steam turbine-driven, 3-stage centrifugal pumps with a capacity of 3,000 gallons per minute each at 300 pounds pressure, and a capacity of 4,550 gallons per minute at 200 pounds pressure.

*At Edison Station, Atlantic Avenue.*—Two motor-driven, 4-stage centrifugal pumps with a capacity of 3,000 gallons per minute at 300 pounds pressure and a capacity of 4,350 gallons per minute at 200 pounds pressure.

Work is now in progress on this contract which includes complete pumping units with the necessary suction and discharge pipes for each station.

The suction and discharge mains from the Distribution System in Atlantic avenue and Commercial street to the two pumping stations are now being laid.

### FINANCIAL STATEMENT FOR THE YEAR ENDING JANUARY 31, 1921.

Appropriations to January 31, 1921 . . .	\$1,300,000 00	
Expended to January 31, 1920 . . .	\$921,477 94	
Expenditures during the year 1920-21:		

Salaries and wages:

Engineers and		
assistants . . .	\$5,275 73	
Inspectors . . .	5,276 82	
Laborers . . .	1,239 00	

*Carried forward,* \$11,791 55

	\$921,477 94	\$1,300,000 00
--	--------------	----------------

<i>Brought forward</i> , \$11,791 55	\$921,477 94	\$1,300,000 00
Mechanics . . . . . 27 50		
Foreman . . . . . 7 67		
	<hr/>	
Total pay roll . . . . .	\$11,826 72	
Construction of distribution system . . . . .	77,280 66	
Water pipes and castings . . . . .	6,311 13	
Paving . . . . .	3,250 07	
Traveling expenses . . . . .	372 41	
Printing . . . . .	120 87	
Professional services . . . . .	91 12	
Tools and repairs, hardware and small supplies . . . . .	85 33	
Telephones . . . . .	59 94	
Advertising . . . . .	27 00	
Stationery . . . . .	24 68	
Meals . . . . .	20 00	
Teaming, freight, etc. . . . .	10 50	
Electric lighting . . . . .	9 00	
Engineers' supplies . . . . .	7 20	
Fuel . . . . .	6 05	
	<hr/>	
Total expenditures, 1920-21 . . . . .	99,502 68	
	<hr/>	
Total expenditures to January 31, 1921 . . . . .		1,020,980 62
	<hr/>	
Unexpended balance January 31, 1921 . . . . .		<u>\$279,019 38</u>

## APPENDIX F.

REPORT OF THE BOSTON AND CAMBRIDGE  
BRIDGE COMMISSION.

BOSTON, February 1, 1921.

*To the Honorable the Mayor:*

SIR,—As commissioner for the City of Boston I respectfully submit herewith the annual report of the Boston and Cambridge Bridge Commission for the year ending January 31, 1921.

This commission is composed of two members, one appointed by the Mayor of the City of Boston and the other by the Mayor of the City of Cambridge, under provisions of chapter 467, Acts of 1898.

The commission has charge of the maintenance of the following-named bridges connecting Boston and Cambridge: Anderson, Brookline Street, Cambridge, Harvard, Prison Point, River Street and Western Avenue to Cambridge.

As there is no separate appropriation made for the City of Boston's portion of the expenses of this commission, the same is taken from the appropriation for the Bridge and Ferry Division, Bridge Service. The amount expended during the fiscal year ending January 31, 1921, was \$26,783.42.

BROOKLINE STREET BRIDGE (OVER CHARLES RIVER AT  
COTTAGE FARM).

A contract with W. S. Rendle was approved on September 10, 1920, for placing some piles in order to make the bridge safe temporarily. The work was completed November 10, 1920.

On this same bridge a contract was awarded to John B. Dolan, approved November 5, 1920, for repairs to the flooring of the bridge.

Some yellow pine underplank was placed over the tracks of the Boston & Albany Railroad in place of the rotted plank and a wood block flooring was laid on top.

Patching was done on various other parts of the bridge in order to make the bridge safe for travel. This work was completed on December 16, 1920.

#### HARVARD BRIDGE.

The draw span of this bridge was sheathed twice and considerable repairs made to the underplanking. Extensive sidewalk repairs have been made to this bridge.

#### PRISON POINT BRIDGE.

This bridge was sheathed once and repairs made to the underplanking and stringers.

#### RIVER STREET BRIDGE AND WESTERN AVENUE BRIDGE OVER CHARLES RIVER.

These bridges were each sheathed once and some rotten underplank in each bridge was replaced.

Respectfully submitted,

THOMAS F. SULLIVAN,  
*Commissioner for the City of Boston.*

## Expenditures for the Year 1920-21.

(Being the Portion Paid by the City of Boston — Which is One Half — of the Total Expenditures.)

	Administration.	Anderson Bridge.	Cambridge Street-River Street Bridge.	Cambridge Bridge.	Essex Street-Brookline Street Bridge.	Harvard Bridge.	Prison Point Bridge.	Western Avenue Bridge to Cambridge.	Totals.
Salaries.....	\$250 00	.....	\$4,655 53	\$2,479 10	.....	\$4,655 53	\$4,655 53	.....	\$16,695 09
Inspection.....	.....	.....	50 00	16 00	\$121 00	266 00	156 00	\$102 00	714 00
Repairs.....	.....	.....	185 40	.....	.....	2,232 91	1,061 10	629 47	4,108 88
Lumber.....	.....	.....	7 91	39 79	.....	609 49	658 09	219 19	1,534 47
Light.....	.....	\$303 84	25 62	1,550 85	188 68	784 12	12 24	25 60	2,890 95
Fuel.....	.....	.....	34 52	.....	.....	42 53	46 62	.....	123 67
Supplies.....	.....	.....	30 07	28 48	51 00	144 49	116 05	23 38	393 47
Removing sweepings.....	.....	.....	.....	.....	.....	171 50	.....	.....	171 50
Printing and stationery.....	73 58	.....	.....	.....	.....	.....	.....	.....	73 58
Telephone and travel expenses.....	74 24	.....	.....	.....	.....	.....	.....	.....	74 24
Advertising.....	2 97	.....	.....	.....	.....	.....	.....	.....	2 97
Totals.....	\$400 79	\$303 84	\$4,989 05	\$4,114 22	\$363 68	\$8,906 57	\$6,705 63	\$999 64	\$26,783 42



Monthly Summary of Draw Openings — Boston and Cambridge Bridges, February 1, 1920, to January 31, 1921.

	CAMBRIDGE STREET- RIVER STREET BRIDGE.			HARVARD BRIDGE.			PRISON POINT BRIDGE.			WESTERN AVENUE BRIDGE TO CAMBRIDGE.		
	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.
<b>1920.</b>												
February.....												
March.....				3		2	8	1	4			
April.....	4		2	6		3	6	1	4	4		2
May.....							6	1	4			
June.....				3		2	6	1	4			
July.....	1		1	10	2	6	6	1	4			
August.....	1		1	3		2	11	2	7			
September.....				20		13						
October.....	2		2	35	7	24	6	1	4	2		2
November.....				55	7	38	5	2	4			
December.....				1		1	3		2			
<b>1921.</b>												
January.....							6	1	4			
Totals.....	8		6	136	16	94	63	11	41	6		4

## Annual Summary of Draw Openings, Boston and Cambridge Bridges, February 1, 1920, to January 31, 1921,

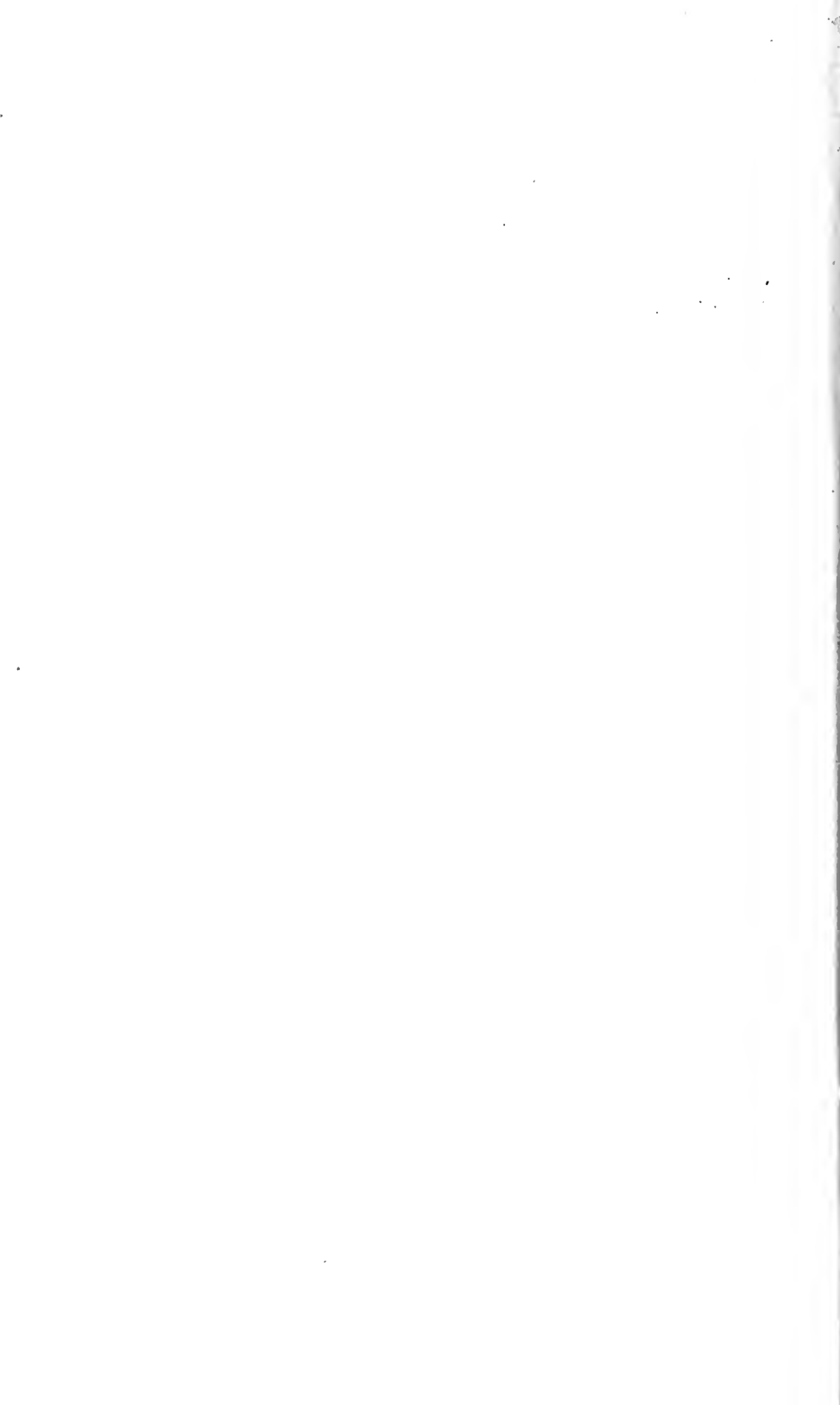
BRIDGE.	TUGS.			BARGES.			ALL OTHERS.			TOTAL VESSELS.			CARGOES.	OPENINGS.
	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.		
Cambridge Street-River Street.....							8		8	8		8		6
Harvard.....	90		90	38		38	8		8	136		136	16	91
Prison Point.....	42		42	18		18	3		3	63		63	11	41
Western Avenue to Cambridge.....							4	2	6	4	2	6		4
Totals.....	132		132	56		56	23	2	25	211	2	213	27	142

DOCUMENT NUMBERS OF ANNUAL REPORTS OF THE  
PUBLIC WORKS DEPARTMENT.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report. . . . .	1911	1912	29
Annual report. . . . .	1912	1913	29
Annual report. . . . .	1913	1914	26
Annual report. . . . .	1914	1915	26
Annual report. . . . .	1915	1916	26
Annual report. . . . .	1916	1917	26
Annual report. . . . .	1917	1918	26
Annual report. . . . .	1918	1919	26
Annual report. . . . .	1919	1920	26
Annual report. . . . .	1920	1921	22









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